

also much smaller than for the corresponding month a year ago. Forty-five lives were lost by lightning, as against 130 during the preceding month, and 41 during September, 1898.

Two short periods of thunderstorm activity in the Lake region and Ohio Valley prevailed, viz: On the 5-6th and again on the 7-8th. The storms were quite severe in portions of Ohio on the night of the 5th, and again on the night of the 7th.

Severe local storms occurred in Connecticut on the 26th, and in New Jersey on the 23d and again on the 29th.

### WIND.

The maximum wind velocity at each Weather Bureau station for a period of five minutes is given in Table I, which also gives the altitude of Weather Bureau anemometers above ground.

Following are the velocities of 50 miles and over per hour registered during the month:

#### Maximum wind velocities.

Stations.	Date.	Velocity.	Direction.	Stations.	Date.	Velocity.	Direction.
Amarillo, Tex.	7	60	w.	Mount Tamalpais, Cal.	27	66	nw.
Basseterre, St. Kitts	8	62	sw.	Do.	28	63	nw.
Bismarck, N. Dak.	51	51	n.w.	Do.	29	62	nw.
Block Island, R. I.	11	54	e.	Do.	30	58	nw.
Fort Canby, Wash.	29	56	se.	New York, N. Y.	3	50	nw.
Hannibal, Mo.	7	57	w.	Do.	11	64	e.
Huron, S. Dak.	27	56	nw.	Pierre, S. Dak.	27	52	nw.
Mount Tamalpais, Cal.	2	50	n.	Williston, N. Dak.	1	60	nw.

### HUMIDITY.

#### Average relative humidity and departures from the normal.

Districts.	Average.	Departure from the normal.	Districts.	Average.	Departure from the normal.
New England	78	- 4	Missouri Valley	59	- 8
Middle Atlantic	76	- 1	Northern Slope	54	+ 1
South Atlantic	78	- 3	Middle Slope	54	- 4
Florida Peninsula	81	- 1	Southern Slope	57	- 5
East Gulf	71	- 6	Southern Plateau	84	- 13
West Gulf	65	- 9	Middle Plateau	58	- 9
Ohio Valley and Tennessee	67	- 6	Northern Plateau	49	- 3
Lower Lake	70	- 4	North Pacific Coast	78	- 3
Upper Lake	78	+ 2	Middle Pacific Coast	56	- 12
North Dakota	64	- 1	South Pacific Coast	67	+ 12
Upper Mississippi	68	- 4			

### SUNSHINE AND CLOUDINESS.

The distribution of sunshine is graphically shown on Chart VII, and the numerical values of average daylight cloudiness, both for individual stations and by geographical districts, appear in Table I.

#### Average cloudiness and departures from the normal.

Districts.	Average.	Departure from the normal.	Districts.	Average.	Departure from the normal.
New England	4.9	- 0.1	Missouri Valley	3.5	- 0.5
Middle Atlantic	4.0	- 0.8	Northern Slope	3.4	- 0.6
South Atlantic	3.5	- 1.3	Middle Slope	2.8	- 0.4
Florida Peninsula	5.7	+ 0.2	Southern Slope	2.0	- 1.6
East Gulf	2.7	- 1.7	Southern Plateau	1.6	- 0.7
West Gulf	2.9	- 1.4	Middle Plateau	1.8	- 0.7
Ohio Valley and Tennessee	3.8	- 0.6	Northern Plateau	2.8	- 1.3
Lower Lake	6.0	+ 1.2	North Pacific Coast	4.0	- 0.9
Upper Lake	6.0	+ 0.9	Middle Pacific Coast	2.7	- 0.1
North Dakota	3.5	- 0.8	South Pacific Coast	2.0	- 0.5
Upper Mississippi	3.9	- 0.3			

### ATMOSPHERIC ELECTRICITY.

Numerical statistics relative to auroras and thunderstorms are given in Table VII, which shows the number of stations from which meteorological reports were received, and the number of such stations reporting thunderstorms (T) and auroras (A) in each State and on each day of the month, respectively.

*Thunderstorms.*—Reports of 2,203 thunderstorms were received during the current month as against 2,698 in 1898 and 4,943 during the preceding month.

The dates on which the number of reports of thunderstorms for the whole country were most numerous were: 7th, 258; 8th, 241; 3d, 178; 6th, 151.

Reports were most numerous from: Pennsylvania, 129; Florida, 111; Ohio, 107; Michigan, 104; New Mexico, 102.

*Auroras.*—The evenings on which bright moonlight must have interfered with observations of faint auroras are assumed to be the four preceding and following the date of full moon, viz, 14th to 22d.

The greatest number of reports were received for the following dates: 26th, 32; 25th, 27; 2d, 6; 27th, 5.

Reports were most numerous from: Minnesota, 13; Wisconsin, 12; Michigan, 10; Montana and North Dakota, 9.

*In Canada.*—Auroras were reported as follows: Sydney, 10th; Grand Manan, 25th; Yarmouth, 25th; Father Point, 30th; Quebec, 9th; White River, 26th, 27th; Minnedosa, 25th, 26th, 29th; Qu'Appelle, 8th; Medicine Hat, 1st, 25th, 26th; Prince Albert, 3d, 10th, 11th, 28th, 29th; Battleford, 29th, 30th.

Thunderstorms were reported as follows: St. Johns, 4th; Grand Manan, 3d, 4th; Yarmouth, 4th; Father Point, 3d; Quebec, 3d, 17th; Montreal, 4th, 12th; Toronto, 7th, 11th, 17th, 24th; White River, 2d, 4th, 12th; Ottawa, 18th; Port Stanley, 1st, 5th, 7th, 8th, 24th, 25th; Parry Sound, 5th; Port Arthur, 2d; Winnipeg, 4th; Barkerville, 21st; Minnedosa, 3d; Qu'Appelle, 3d; Medicine Hat, 1st; Swift Current, 1st, 17th; Banff, 12th, 29th; Edmonton, 13th; Kamloops, 12th; Victoria, 29th; Bermuda, 1st, 3d, 4th, 14th; Sable Island, 13th.

### DESCRIPTION OF TABLES AND CHARTS.

By ALFRED J. HENRY, Chief of Division of Records and Meteorological Data.

Table I gives, for about 130 Weather Bureau stations making two observations daily and for about 20 others making only one observation, the data ordinarily needed for climatological studies, viz, the monthly mean pressure, the monthly means and extremes of temperature, the average conditions as to moisture, cloudiness, movement of the wind, and

the departures from normals in the case of pressure, temperature, and precipitation, the total depth of snowfall, and the mean wet-bulb temperatures. The altitudes of the instruments above ground are also given.

Table II gives, for about 2,700 stations occupied by voluntary observers, the highest maximum and the lowest minimum

temperatures, the mean temperature deduced from the average of all the daily maxima and minima, or other readings, as indicated by the numeral following the name of the station; the total monthly precipitation, and the total depth in inches of any snow that may have fallen. When the spaces in the snow column are left blank it indicates that no snow has fallen, but when it is possible that there may have been snow of which no record has been made, that fact is indicated by leaders, thus (....).

Table III gives, for 26 stations selected out of 113 that maintain continuous records, the mean hourly temperatures deduced from the Richard thermographs described and figured in the Report of the Chief of the Weather Bureau, 1891-92, p. 29.

Table IV gives, for 26 stations selected out of 104 that maintain continuous records, the mean hourly pressures as automatically registered by Richard barographs, except for Washington, D. C., where Foreman's barograph is in use. Both instruments are described in the Report of the Chief of the Weather Bureau, 1891-92, pp. 26 and 30.

Table V gives, for about 130 stations, the arithmetical means of the hourly movements of the wind ending with the respective hours, as registered automatically by the Robinson anemometer, in conjunction with an electrical recording mechanism, described and illustrated in the Report of the Chief of the Weather Bureau, 1891-92, p. 19.

Table VI gives, for all stations that make observations at 8 a. m. and 8 p. m., the four component directions and the resultant directions based on these two observations only and without considering the velocity of the wind. The total movement for the whole month, as read from the dial of the Robinson anemometer, is given for each station in Table I. By adding the four components for the stations comprised in any geographical division the average resultant direction for that division can be obtained.

Table VII gives the total number of stations in each State from which meteorological reports of any kind have been received, and the number of such stations reporting thunderstorms (T) and auroras (A) on each day of the current month.

Table VIII gives, for about 70 stations, the average hourly sunshine (in percentages) as derived from the automatic records made by two essentially different types of instruments, designated, respectively, the thermometric recorder and the photographic recorder. The kind of instrument used at each station is indicated in the table by the letter T or P in the column following the name of the station.

Table IX gives a record of rains whose intensity at some period of the storm's continuance equaled or exceeded the following rates:

Duration, minutes..	5	10	15	20	25	30	35	40	45	50	60	80	100	120
Rates pr. hr. (ins.)..	3.00	1.80	1.40	1.20	1.08	1.00	0.94	0.90	0.86	0.84	0.75	0.60	0.54	0.50

In the northern part of the United States, especially in the colder months of the year, rains of the intensities shown in the above table seldom occur. In all cases where no storm of sufficient intensity to entitle it to a place in the full table has occurred, the greatest rainfall of any single storm has been given, also the greatest hourly fall during that storm.

Table X gives the record of excessive precipitation at all stations from which reports are received.

Table XI gives, for about 30 stations furnished by the Canadian Meteorological Service, Prof. R. F. Stupart, director, the means of pressure and temperature, total precipitation and depth of snowfall, and the respective departures from normal values, except in the case of snowfall.

#### NOTES EXPLANATORY OF THE CHARTS.

Chart I, tracks of centers of high areas, and Chart II, tracks of centers of low areas, are constructed in the same way. The roman numerals show number and chronological order of highs (Chart I) and lows (Chart II). The figures within the circles show the days of the month; the letters a and p indicate, respectively, the 8 a. m. and 8 p. m., seventy-fifth meridian time, observations. Within each circle is also given (Chart I) the highest barometric reading and (Chart II) the lowest pressure at or near the center at that time.

Chart III.—Total precipitation. The scale of shades showing the depth of rainfall is given on the chart itself. For isolated stations the rainfall is given in inches and tenths, when appreciable; otherwise, a "trace" is indicated by a capital T, and no rain at all, by 0.0.

Chart IV.—Sea-level pressure, temperature, and resultant surface winds. The wind directions on this Chart are the computed resultants of observations at 8 a. m. and 8 p. m., daily; the resultant duration is shown by figures attached to each arrow. The temperatures are the means of daily maxima and minima and are reduced to sea level. The pressures are the means of 8 a. m. and 8 p. m. observations, daily, and are reduced to sea level and to standard gravity. The reduction for 30 inches of the mercurial barometer, as formerly shown by the marginal figures for each degree of latitude, has already been applied.

Chart V.—Hydrographs for seven principal rivers of the United States.

Chart VI.—Surface temperatures; maximum, minimum, and mean. Lines of equal monthly mean temperature in red; lines of equal maximum temperature in black; and lines of equal minimum temperature (dotted) also in black.

Chart VII.—Percentage of sunshine. The average cloudiness at each Weather Bureau station is determined by numerous personal observations during the day. The difference between the observed cloudiness and 100, it is assumed, represents the percentage of sunshine, and the values thus obtained have been used in preparing Chart VII.

Chart VIII.—The total snowfall. This is based on the reports from regular and voluntary observers, and shows the depth of the snowfall during the month in inches. In general, the depth is shown by lines inclosing areas of equal snowfall, but in special cases figures are also given.

Chart IX.—Sea-level pressure, temperature, and resultant surface winds, West Indian stations. See explanation under Chart IV.

Chart X.—West Indian hurricane tracks.

Chart XI.—Path of totality during eclipse of May 28, 1900.

TABLE I.—Climatological data for Weather Bureau Stations, September, 1899.

Stations.	Elevation of instruments.		Pressure, in inches.		Temperature of the air, in degrees Fahrenheit.						Precipitation, in inches.		Wind.						
	Barometer above sea level, feet.	Thermometers above ground.	Mean actual, 8 a.m. and 8 p.m. + 2.	Mean reduced.	Departure from normal.	Mean max. and min. + 2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Greatest daily range.	Mean wet thermometer.	Mean temperature of the dew-point.	Mean relative humidity, per cent.	Total movement, miles per hour.	Prevailing direction.	Maximum velocity.	
New England.																			
Eastport.	76	89	74	29.96	30.05	+ .03	60.6	— 0.8	51.9	— 0.9	57.6	— 1.1	54.3	— 1.4	51.3	— 0.7	11	7,408 sw. nw. no. 33	
Portland, Me.	103	81	89	29.91	30.01	+ .04	59.7	— 0.8	50.1	— 0.9	57.0	— 1.0	53.8	— 1.4	50.4	— 1.2	11	5,550 sw. nw. no. 33	
Northfield.	873	15	65	29.11	30.04	+ .03	54.3	— 1.1	50.7	— 1.4	50.0	— 1.7	48.0	— 1.7	47.0	— 1.4	12	6,948 sw. nw. no. 33	
Boston.	125	115	151	29.92	30.06	+ .00	62.0	— 0.4	62.9	— 1.9	70	— 0.4	44	— 1.5	54	— 1.2	7	7,486 sw. nw. no. 33	
Nantucket.	14	43	54	30.05	30.06	+ .03	62.2	— 0.5	71	— 0.6	68	— 0.4	49	— 2.4	57	— 1.2	9	7,570 w. nw. no. 33	
Woods Hole.	22	11	57	30.04	30.06	+ .00	63.5	— 0.5	76	— 0.6	69	— 0.5	49	— 1.7	58	— 1.2	11	9,755 w. nw. no. 33	
Vineyard Haven.	20	25	35	30.04	30.06	+ .00	64.1	— 0.4	71	— 0.5	71	— 0.4	55	— 1.5	57	— 1.2	8	8,039 sw. nw. no. 33	
Block Island.	27	11	48	30.03	30.06	+ .01	63.4	— 0.2	79	— 0.3	69	— 0.2	48	— 1.5	58	— 1.2	10	11,112 sw. nw. no. 33	
Narragansett.	10	10	10	30.03	30.06	+ .02	61.4	— 0.8	60	— 0.8	70	— 0.8	40	— 1.4	53	— 1.2	9	4,932 sw. nw. no. 33	
New Haven.	107	116	140	29.95	30.06	+ .02	62.2	— 1.3	66	— 1.1	70	— 1.3	41	— 1.5	54	— 1.2	9	6,107 sw. nw. no. 33	
Md. Atlan. States.																			
Albany.	97	84	113	29.95	30.06	+ .00	61.4	— 1.7	85	— 1.8	71	— 1.7	40	— 1.6	52	— 1.5	7	6,333 sw. nw. no. 33	
Binghamton.	875	79	90	29.95	30.06	+ .02	59.2	— 1.8	84	— 1.8	70	— 1.8	46	— 2.7	58	— 1.5	10	5,637 s. nw. no. 33	
New York.	314	131	346	29.73	30.06	+ .02	65.2	— 0.7	94	— 0.7	84	— 0.7	46	— 2.7	58	— 1.2	11	6,948 sw. nw. no. 33	
Harrisburg.	377	94	104	29.95	30.06	+ .02	64.2	— 0.2	86	— 0.3	73	— 0.2	41	— 3.0	55	— 1.2	8	5,355 sw. nw. no. 33	
Philadelphia.	117	165	184	29.95	30.07	+ .03	67.0	— 0.1	97	— 0.1	75	— 0.1	45	— 2.3	59	— 1.2	9	7,486 sw. nw. no. 33	
Atlantic City.	52	68	76	30.01	30.06	+ .00	65.6	— 1.1	88	— 1.1	72	— 1.1	42	— 2.0	59	— 1.2	10	8,205 sw. nw. no. 33	
Cape May.	24	52	70	30.05	30.07	+ .01	67.1	— 1.0	94	— 1.0	72	— 1.0	48	— 2.0	62	— 1.2	8	8,484 s. nw. no. 33	
Baltimore.	128	68	82	29.93	30.06	+ .02	67.0	— 0.9	94	— 0.9	76	— 0.9	46	— 2.0	60	— 1.2	10	9,770 sw. nw. no. 33	
Washington.	112	58	76	29.95	30.07	+ .02	65.8	— 2.0	94	— 2.0	76	— 2.0	41	— 3.0	55	— 1.2	11	4,271 se. nw. no. 33	
Cape Henry.	5	5	34	29.95	30.07	+ .02	72.0	— 0.2	96	— 0.2	78	— 0.2	51	— 2.3	66	— 1.2	10	4,145 se. nw. no. 33	
Lynchburg.	685	83	88	29.94	30.07	+ .00	67.0	— 2.0	98	— 2.0	78	— 2.0	40	— 2.8	58	— 1.2	8	8,629 se. nw. no. 33	
Norfolk.	92	103	111	29.97	30.07	+ .00	71.6	— 0.5	98	— 0.5	80	— 0.5	51	— 2.3	64	— 1.2	10	2,003 se. nw. no. 33	
Richmond.	144	98	105	29.95	30.07	+ .00	69.9	— 0.5	100	— 0.5	80	— 0.5	50	— 2.3	60	— 1.2	9	3,684 se. nw. no. 33	
S. Atlantic States.																			
Charlotte.	773	68	76	29.25	30.06	+ .00	70.4	— 0.7	98	— 0.7	81	— 0.7	44	— 2.7	60	— 1.2	7	8,779 ne. nw. no. 33	
Hatteras.	11	17	36	30.04	30.05	+ .01	74.9	— 1.2	88	— 1.2	79	— 1.2	60	— 2.7	68	— 1.2	9	8,098 ne. nw. no. 33	
Kittyhawk.	9	12	30	30.03	30.04	+ .01	73.0	— 0.4	84	— 0.4	78	— 0.4	55	— 2.7	68	— 1.2	8	8,688 ne. nw. no. 33	
Raleigh.	375	93	101	29.67	30.06	+ .02	70.4	— 0.1	100	— 0.1	81	— 0.1	45	— 2.7	60	— 1.2	10	3,652 ne. nw. no. 33	
Wilmington.	73	92	90	29.97	30.05	+ .01	73.2	— 0.4	94	— 0.4	81	— 0.4	50	— 2.7	65	— 1.2	9	4,743 ne. nw. no. 33	
Charleston.	48	14	52	30.01	30.06	+ .03	76.9	— 0.9	95	— 0.9	83	— 0.9	50	— 2.7	71	— 1.2	8	7,201 ne. nw. no. 33	
Columbia.	5	5	34	29.95	30.06	+ .02	73.5	— 0.3	97	— 0.3	84	— 0.3	45	— 2.7	63	— 1.2	9	8,131 ne. nw. no. 33	
Augusta.	180	89	103	29.85	30.04	+ .02	74.2	— 0.2	95	— 0.2	84	— 0.2	46	— 2.7	64	— 1.2	8	8,768 ne. nw. no. 33	
Savannah.	65	79	89	29.96	30.02	+ .01	76.4	— 0.6	94	— 0.6	85	— 0.6	53	— 2.7	68	— 1.2	9	4,824 e. nw. no. 33	
Jacksonville.	43	69	84	29.96	30.01	+ .02	77.4	— 0.2	98	— 0.2	86	— 0.2	54	— 2.7	69	— 1.2	8	4,730 e. nw. no. 33	
Florida Peninsula.																			
Jupiter.	29	13	30	29.99	30.06	+ .00	80.8	— 0.2	91	— 0.2	82	— 0.2	51	— 2.7	70	— 1.2	9	11,271 ne. nw. no. 33	
Key West.	22	48	50	29.94	30.06	+ .02	82.8	— 0.3	92	— 0.3	82	— 0.3	52	— 2.7	71	— 1.2	9	4,935 ne. nw. no. 33	
Tampa.	36	60	67	29.93	30.07	+ .01	79.2	— 0.4	92	— 0.4	87	— 0.4	62	— 2.7	71	— 1.2	9	8,833 ne. nw. no. 33	
East Gulf States.																			
Atlanta.	1,174	180	156	28.84	30.06	+ .01	71.6	— 0.1	96	— 0.1	81	— 0.1	48	— 2.7	62	— 1.2	7	6,404 nw. nw. no. 33	
Macon.	870	—	—	—	—	—	78.8	— 0.5	95	— 0.5	85	— 0.5	45	— 2.7	68	— 1.2	9	5,551 nw. nw. no. 33	
Pensacola.	56	78	90	29.98	30.04	+ .05	76.0	— 0.5	95	— 0.5	85	— 0.5	55	— 2.7	69	— 1.2	9	4,551 nw. nw. no. 33	
Mobile.	57	88	96	29.98	30.04	+ .05	76.0	— 0.8	95	— 0.8	86	— 0.8	50	— 2.7	68	— 1.2	9	6,094 nw. nw. no. 33	
Montgomery.	221	100	112	29.80	30.04	+ .02	74.9	— 0.1	96	— 0.1	84	— 0.1	46	— 2.7	64	— 1.2	9	3,494 nw. nw. no. 33	
Meridian.	375	84	94	29.77	30.08	+ .01	71.9	— 1.1	96	— 1.1	84	— 1.1	39	— 2.7	61	— 1.2	9	3,486 nw. nw. no. 33	
Vicksburg.	247	65	73	29.77	30.08	+ .01	74.0	— 1.3	96	— 1.3	84	— 1.3	39	— 2.7	61	— 1.2	9	3,002 nw. nw. no. 33	
New Orleans.	54	112	130	29.98	30.04	+ .07	77.7	— 0.4	95	— 0.4	85	— 0.4	57	— 2.7	61	— 1.2	9	3,954 nw. nw. no. 33	
Port Eads.	27	—	—	—	—	—	78.8	— 1.0	96	— 1.0	84	— 1.0	57	— 2.7	66	— 1.2	9	4,040 nw. nw. no. 33	
West Gulf States.																			
Shreveport.	249	77	84	29.79	30.06	+ .04	76.0	— 0.5	101	— 0.5	88	— 0.5	49	— 2.7	64	— 1.2	9	4,204 se. nw. no. 33	
Fort Smith.	457	74	82	29.56	30.04	+ .05	73.0	— 0.7	102	— 0.7	85	— 0.7	48	— 2.7	60	— 1.2	9	4,882 e. nw. no. 33	
Little Rock.	367	98	100	29.70	30.08	+ .05	72.4	— 0.5	98	— 0.5	85	— 0.5	42	— 2.7	61	— 1.2	9	3,966 nw. nw. no. 33	
Corpus Christi.	20	42	42	29.99	30.01	+ .04	78.8	— 0.0	90	— 0.0	81	— 0.0	46	— 2.7	63	— 1.2	9	3,063 se. nw. no. 33	
Fort Worth.	670	106	114	29.77	30.01	+ .05	76.5	— 0.5	98	— 0.5	85	— 0.5	52	— 2.7	64	— 1.2	9	1,024 nw. nw. no. 33	
Galveston.	54	85	96	29.96	30.01	+ .05	79.7	— 0.2	98	— 0.2	85	— 0.2	48	— 2.7	75	— 1.2	9	1,855 nw. nw. no. 33	
Palestine.	510	64	61	29.50	30.04	+ .08	78.2	— 0.5	98	— 0.5	89	— 0.5	43	— 2.7	64	— 1.2	9	3,237 nw. nw. no. 33	
San Antonio.	704	95	104	29.29	30.01	+ .04	68.5	— 0.1	96	— 0.1	80	— 0.1	56	— 2.7	66	— 1.2	9	5,077 nw. nw. no. 33	
Ohio Val. & Tenn.																			
Chattanooga.	762	106	112	29.28	30.08	+ .02	70.8	— 0.1	97	— 0.1	82	— 0.1	41	— 2.7	65	— 1.2	9	4,129 w. nw. no. 33	
Knoxville.	1,004	10	10	29.03	30.08	+ .00	70.0	— 0.7	97	— 0.7	82	— 0.7	37	— 2.7	61	— 1.2	9	4,514 w. nw. no. 33	
Memphis.	399	140	154	29.66	30.08	+ .04	72.												

TABLE I.—Climatological data for Weather Bureau Stations, September, 1899—Continued.

Stations.	Elevation of instruments.		Pressure, in inches.		Temperature of the air, in degrees Fahrenheit.						Precipitation, in inches.		Wind.		Maximum velocity.																																
	Barometer above sea-level, feet.		Thermometers above ground.		Mean actual, &c., m. and 8 p.m. + 2.			Mean max. and min. + 2.			Departure from normal.			Mean maximum.		Mean minimum.		Greatest daily range.		Mean weather thermometer.		Mean temperature of the dew-point.		Mean relative humidity, per cent.		Total.		Departure from normal.		Days with 0.1 or more.		Total movement, miles.		Prevailing direction.		Miles per hour.		Date.		Clear days.		Cloudy days.		Average cloudiness, tenths.		Total snowfall.	
	Mean reduced.		Departure from normal.		Mean.			Departure from normal.			Maximum.			Date.		Minimum.		Date.		Mean temperature of the dew-point.		Mean relative humidity, per cent.		Total.		Days with 0.1 or more.		Total movement, miles.		Direction.		Date.		Clear days.		Cloudy days.		Average cloudiness, tenths.		Total snowfall.							
<i>Upper Miss. Valley.</i>																																															
Minneapolis . . . . .	99	208	29.14	30.04	+ .05			64.2	—	.8	2.8	59.4	—	.8	89	—	69	—	50	34	51	63	1.88	—	1.5	10	8,760	n.	48	6	11	12	10	15	10	15	10	15	5.8	T.							
St. Paul . . . . .	837	114	124	30.14	30.04	+ .05		59.0	—	.8	2.8	54.5	—	.8	87	—	50	34	51	63	1.21	—	1.2	11	5,698	n.w.	38	48	6	11	12	10	15	10	15	10	15	4.7									
La Crosse . . . . .	720	70	78	29.41	30.05	+ .08		59.7	—	1.9	3.8	64.4	—	0.8	97	—	55	34	51	63	1.06	—	3.2	5	4,758	s.e.	27	28	6	10	12	10	15	10	15	10	15	5.5									
Davenport . . . . .	606	71	79	29.41	30.05	+ .08		64.0	—	0.1	0.9	62.4	—	0.8	96	—	52	34	51	63	1.17	—	2.0	8	5,668	s.w.	28	28	6	10	12	10	15	10	15	10	15	4.8									
Des Moines . . . . .	867	84	88	29.16	30.08	+ .08		64.0	—	0.1	0.9	62.4	—	0.8	96	—	52	34	51	63	0.99	—	3.1	8	5,451	n.w.	35	35	6	10	12	10	15	10	15	10	15	4.6									
Dubuque . . . . .	608	101	109	29.23	30.07	+ .08		64.2	—	1.2	2.8	65.2	—	1.2	101	—	50	32	51	63	4.32	+ 0.8	0.8	6	4,747	s.w.	28	28	6	10	12	10	15	10	15	10	15	3.0									
Keokuk . . . . .	614	64	78	29.42	30.07	+ .05		65.2	—	1.2	2.8	70.1	—	0.2	97	—	50	32	51	63	2.25	+ 0.8	0.8	6	4,856	s.	36	36	6	10	15	10	15	10	15	10	15	3.1									
Cairo . . . . .	539	87	93	29.69	30.08	+ .05		65.1	—	1.0	2.0	65.0	—	0.9	99	—	50	35	51	63	3.38	+ 0.1	0.1	5	5,709	n.	27	28	6	10	15	10	15	10	15	10	15	3.1									
Springfield, Ill. . . . .	644	82	92	29.39	30.07	+ .03		65.4	—	1.0	2.0	65.0	—	0.9	101	—	50	35	51	63	2.91	+ 0.4	0.4	5	5,569	s.w.	57	57	6	10	15	10	15	10	15	10	15	3.1									
Hannibal . . . . .	534	75	107	29.39	30.07	+ .03		65.0	—	1.0	2.0	65.0	—	0.9	102	—	50	35	51	63	2.91	+ 0.4	0.4	5	6,923	s.s.	32	32	6	10	15	10	15	10	15	10	15	3.1									
St. Louis . . . . .	587	111	210	29.46	30.07	+ .04		70.1	—	0.7	0.7	65.3	—	0.8	98	—	50	34	51	63	1.08	+ 1.4	1.4	5	4,886	n.w.	23	23	6	10	15	10	15	10	15	10	15	3.1									
<i>Missouri Valley.</i>																																															
Columbia . . . . .	788	4	84	29.06	30.07	+ .07		67.1	—	1.4	2.8	68.2	—	0.9	94	—	50	35	51	63	1.66	+ 1.8	1.8	3	5,738	n.w.	32	32	6	10	15	10	15	10	15	10	15	3.2									
Kansas City . . . . .	968	78	95	29.06	30.07	+ .07		68.2	—	1.4	2.8	69.0	—	0.9	95	—	50	35	51	63	1.00	+ 8.0	8.0	3	6,688	s.e.	32	32	6	10	15	10	15	10	15	10	15	3.2									
Springfield, Mo. . . . .	1,334	100	108	28.59	30.07	+ .06		69.0	—	1.3	2.8	69.8	—	0.9	95	—	50	35	51	63	1.05	+ 1.2	1.2	3	5,738	n.w.	24	24	6	10	15	10	15	10	15	10	15	3.2									
Topeka . . . . .	81	27	44	29.06	30.07	+ .06		67.8	—	0.9	0.9	68.2	—	0.9	94	—	50	35	51	63	1.57	+ 1.2	1.2	3	5,738	s.e.	32	32	6	10	15	10	15	10	15	10	15	3.2									
Lincoln . . . . .	1,199	74	84	28.78	30.04	+ .04		66.7	—	0.6	0.6	101	—	0.5	95	—	50	35	51	63	0.99	+ 0.9	0.9	3	5,686	s.e.	45	45	6	10	15	10	15	10	15	10	15	3.2									
Omaha . . . . .	1,105	115	128	28.88	30.03	+ .03		66.4	—	0.6	0.6	66.2	—	0.6	95	—	50	35	51	63	0.53	+ 0.9	0.9	3	5,686	s.e.	40	40	6	10	15	10	15	10	15	10	15	3.2									
Sioux City . . . . .	1,189	98	124	28.37	30.02	+ .03		68.2	—	2.6	2.6	67.6	—	2.6	95	—	50	35	51	63	0.26	+ 0.9	0.9	3	5,924	s.e.	36	36	6	10	15	10	15	10	15	10	15	3.2									
Pierre . . . . .	1,572	50	62	28.37	30.02	+ .03		68.2	—	0.5	0.5	104	—	0.4	95	—	50	35	51	63	1.51	+ 0.5	0.5	3	5,750	s.e.	27	27	6	10	15	10	15	10	15	10	15	3.2									
Huron . . . . .	1,306	56	67	28.63	30.05	+ .05		68.8	—	1.3	1.3	68.0	—	0.9	96	—	50	35	51	63	0.29	+ 1.1	1.1	2	5,668	s.w.	27	27	6	10	15	10	15	10	15	10	15	3.1									
Yankton . . . . .	1,284	52	58	28.40	30.03	+ .03		68.0	—	2.8	2.8	68.0	—	2.8	95	—	50	35	51	63	0.02	+ 2.8	2.8	2	6,075	n.w.	37	37	6	10	15	10	15	10	15	10	15	3.1									
<i>Northern Slope.</i>																																															
Hayre . . . . .	2,484	46	47	27.40	29.98	+ .03		58.8	—	3.9	90	10	74	28	28	44	45	46	47	41	61	0.20	+ 1.0	1.0	4	6,981	s.w.	44	44	6	10	15	10	15	10	15	10	15	3.5								
Miles City . . . . .	2,371	42	50	27.58	29.97	+ .03		58.2	—	3.4	3.4	58.2	—	3.4	94	*	50	35	51	63	0.04	+ 0.7	0.7	3	4,809	s.e.	48	48	6	10	15	10	15	10	15	10	15	3.4									
Helena . . . . .	4,108	88	98	25.95	30.07	+ .06		59.8	—	4.0	4.0	58.8	—	4.0	94	*	50	35	51	63	0.64	+ 0.5	0.5	3	5,750	s.w.	43	43	6	10	15	10	15	10	15	10	15	3.4									
Kalispell . . . . .	2,964	45	51	27.01	30.07	+ .05		55.0	—	1.7	1.7	77	—	1.7	26	27	48	48	49	50	2.75	+ 0.7	0.7	3	4,042	n.w.	26	26	6	10	15	10	15	10	15	10	15	3.4									
Rapid City . . . . .	3,251	46	50	26.87	29.98	+ .06		62.8	—	1.4	1.4	100	—	1.4	90	90	50	35	51	63	0.84	+ 0.8	0.8	3	4,637	n.w.	36	36	6	10	15	10	15	10	15	10	15	3.4									
Cheyenne . . . . .	6,084	58	60	24.14	30.00	+ .05		59.4	—	3.2	3.2	59.4	—	3.2	90	90	50	35	51	63	1.71	+ 0.4	0.4	3	5,847	s.e.	43	43	6	10	15	10	15	10	15	10	15	3.4									
Lander . . . . .	5,372	28	36	24.70	30.05	+ .05		58.6	—	2.9	2.9	58.6	—	2.9	90	90	50	35	51	63	1.75	+ 2.1	2.1	5	5,897	s.w.	37	37	6																		

TABLE II.—*Climatological record of voluntary and other cooperating observers, September, 1899.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Alabama.</i>																	
Aco <sup>a</sup> .....	92	41	75.8	1.80	Ins.	Texas Hill <sup>*1</sup> .....	118	73	98.6	0.00	Ins.	Dewey.....	106	52	77.4	0.00	Ins.
Ashville.....	93	34	71.9	0.14		Tombstone.....	98	59	76.8	1.07		Drytown.....	103	44	75.6	0.00	
Bermuda.....	93	41	72.6	1.04		Tonto.....	100	51	76.5	0.89		Dunnigan <sup>*1</sup> .....	102	62	78.6	0.00	
Birmingham.....	93	43	74.0	0.04		Tuba <sup>*</sup> .....	100	46	76.5	0.00		Durham <sup>*1</sup> .....	102	50	74.5	0.00	
Bridgerport.....						Tucson.....	107	52	82.4	0.03		Edmanton <sup>*1</sup> .....	91	33	68.3	0.00	
Citronelle.....	93	50	75.5	0.14		Walnut Grove.....	106	65	82.0	0.00		Elsajon.....	104	42	72.1	0.00	
Clanton.....	93	38	71.6	1.47		Whitehills.....	106	63	82.0	0.25		Elmwood.....	104	41	73.3	0.00	
Daphne.....	93 <sup>d</sup>	49 <sup>c</sup>	75.2 <sup>b</sup>	2.80		Willcox.....	95	43	68.8	0.10		Elsinore.....	114	45	77.6	T.	
Decatur.....	93	37	71.6	0.11		Winslow.....						Escondido.....	97	37	68.6	0.00	
Demopolis.....						Yarnell.....						Fallbrook <sup>*1</sup> .....	104	55	67.8	0.00	
Eufaula <sup>a</sup> .....	97	39	74.2	1.16								Folsom City <sup>*1</sup> .....	98	56	73.0	0.00	
Evergreen.....	93	41	74.8	0.10								Fordyce Dam.....					
Florence <sup>a</sup> .....												Fort Ross.....	77	43	56.3	0.00	
Florence <sup>b</sup> .....	99	37	72.4	0.96								Georgetown.....	95	48	72.9	0.00	
Fort Deposit.....	94	44	74.0	1.08								Gilroy (near).....	102	39	67.0	0.00	
Gadsden.....	93	34	72.2	0.08								Glendora.....					
Goodwater.....	93	37	73.1	0.26								Goshen <sup>*1</sup> .....	102	49	73.4	0.00	
Greensboro.....	97	45	74.2	0.50								Grand Island <sup>*2</sup> .....	104	49	77.1	0.00	
Healing Springs.....	93	36	73.1	0.32								Grass Valley.....					
Highland Home.....	91 <sup>c</sup>	49 <sup>c</sup>	74.2 <sup>b</sup>	0.62								Greenville.....	97	27	60.7	0.00	
Jasper.....												Hanford.....	102	46	74.0	0.00	
Livingston <sup>a</sup> .....	95	40	72.8	0.36								Hill Ranch.....	104	44	74.6	T.	
Lock No. 4.....	94	38	71.8	0.06								Hollister.....	101	38	66.6	0.00	
Madison Station.....	97	31	72.0	0.08								Indio <sup>*1</sup> .....	110	70	92.2	0.10	
Maplegrove.....	97	35	69.7	0.71								Iowa Hill <sup>*1</sup> .....	95	54	72.7	0.00	
Marion.....	102	43	72.0	0.59								Irvine.....	102	58	77.2	0.12	
Mount Willing.....	97	42	74.9	0.43								Jackson.....	90	42	70.7	0.00	
Newbern.....	96	44	74.0	0.78								Jolon.....					
Newburg.....	99	30	69.6	1.00								Keene <sup>*1</sup> .....	96	50	69.1	0.00	
Newton.....	95	41	72.4	1.24								Kennedy Gold Mine.....	94	48	73.3	0.00	
Oneonta.....	94	34	69.6	2.03								Kernville.....					
Opelika.....	97	42	74.5	0.81								King City <sup>*1</sup> .....	100	46	62.4	0.00	
Oxanna.....	94	37	70.4	0.05								Kingsburg <sup>*1</sup> .....	100	60	79.7	0.00	
Pineapple.....	100	42	74.6	1.20								Kono Tayee.....	92	50	72.4	0.00	
Pushmataha.....	97	39	74.0	0.16								Lagrange <sup>*1</sup> .....	105	55	79.9	0.00	
Riverton.....	104	32	70.5	0.28								Lakeside.....					
Scottsboro.....	94	34	68.8	T.								Lamesa.....					
Selma.....	99	42	77.0	0.38								Lankershim.....	105	48	75.8	0.00	
Talladega.....	98	36	70.8	0.00								Laporte <sup>*1</sup> .....	98	41	68.5	0.00	
Tallassee.....												Legrand.....	104	40	74.2	0.00	
Thomasville.....	97	42	74.0	T.								Lemoncoove.....	106	50	79.8	0.00	
Tuscaloosa.....	99	40	72.2	T.								Lemoore <sup>a</sup> .....	101	53	75.3	0.00	
Tuscumbia.....	99	39	72.0	0.85								Lick Observatory.....	91	48	68.8	T.	
Union Springs.....	93	45	74.0	0.58								Lodi.....	99	49	72.6	0.00	
Untontown.....	93	47	76.2	0.04								Los Alamos.....					
Valleyhead.....	97	38	69.1	1.78								Los Gatos <sup>a</sup> .....	94	45	68.8	0.00	
Warrior.....												Malakoff Mine.....	92	44	68.8	0.00	
Wetumpka.....	97	40	74.8	0.23								Mammoth <sup>*1</sup> .....	112	80	91.0	0.00	
Wilson <sup>*1</sup> .....	97	43	75.6	0.65								Manzana.....	100	57	80.2	0.00	
<i>Alaska.</i>												Merced <sup>a</sup> .....	101	57	71.2	0.00	
Sitka.....	68	40	51.0	8.52								Merced <sup>b</sup> .....	105	49	75.6	0.00	
<i>Arizona.</i>												Mills College.....					
Allaire Ranch.....												Milo.....					
Arizona Canal Co. Dam.....	112	64	84.9	1.84								Milton (near) <sup>*1</sup> .....	98	53	76.7	0.00	
Aztec <sup>*1</sup> .....	114	74	91.3	T.								Modesto <sup>*1</sup> .....	102	56	73.8	0.00	
Benson <sup>*1</sup> .....	99	65	88.1	0.75								Mohave <sup>*1</sup> .....	100	60	79.4	0.00	
Bisbee.....	96	54	73.8	2.85								Mokelumne Hill <sup>*1</sup> .....	96	52	72.4	T.	
Blasdeell <sup>*1</sup> .....	114	73	94.2	0.00								Monterey <sup>*1</sup> .....	90	54	62.9	0.00	
Buckeye.....	110	56	83.7	0.40								Moreno.....	108	40	74.4	T.	
Camp Creek.....	104	63	81.4	1.55								Mountainview.....					
Casa Grande <sup>*1</sup> .....	105	70	88.5	0.00								Napa b.....	98	42	66.7	0.00	
Champlie Camp.....	112	63	86.6	0.25								Needles.....	109	66	57.2	0.28	
Congress.....	104	66	85.2	0.10								Nevada City.....	89	39	64.8	0.00	
Dragoon.....												Newhall <sup>*1</sup> .....	108	58	78.9	0.00	
Dragoon Summit <sup>*1</sup> .....	95	60	71.2	1.04								North Ontario.....	98	50	75.5	0.05	
Dudleyville.....	105	49	77.6	1.39								North San Juan <sup>*1</sup> .....	97	48	68.8	0.00	
Fort Apache.....	96	43	69.8	1.52								Oakland.....	78	48	60.6	0.00	
Fort Defiance.....												Ogilby <sup>*1</sup> .....	122	80	98.0	0.00	
Fort Grant.....	98	56	75.8	0.69								Oleta <sup>*1</sup> .....	94	51	66.6	T.	
Fort Huachuca.....	99	56	76.0	0.51								Orland <sup>*1</sup> .....	106	60	78.1	0.00	
Fort Mohave.....	118	61	88.8	T.								Palermo.....	104	45	74.4	0.00	
Gila Bend <sup>*1</sup> .....	110	69	89.2	0.80								Paso Robles <sup>b</sup> .....	97	44	69.4	T.	
Holbrook.....	100	38	70.1	0.05								Peachland <sup>*1</sup> .....	85	45	64.0	0.00	
Hot Springs.....	109 <sup>c</sup>	61	86.0 <sup>c</sup>	0.08								Pilot Creek.....					
Ingleseide.....	109	59	85.9	0.54								Pine Crest.....	99	52	74.0	T.	
Jerome.....	98	55	78.4	0.10								Placerville.....	92	40	66.6	0.00	
Lochiel <sup>*1</sup> .....	92	57	70.7	0.50								Point Lobos.....	66	48	55.2	0.00	
Maricopa <sup>*1</sup> .....	107	70	88.1	0.36								Pomona (near).....	106	49	75.6	0.00	
Meas.....	111	52	82.6	0.76								Poway <sup>*2</sup> .....	95	56	64.4	0.00	
Mount Huachuca.....	92	45	72.3	1.46								Quincy.....	94	56	73.6	0.08	
Music Mountain.....	108	52	80.6	0.05								Ranch House.....	94	56	73.6	0.08	
Natural Bridge.....												Redding.....	103	53	77.8	0.00	
Nogales.....	108	50	74.8	1.71								Redlands.....	106	52	79.0	0.05	
Oracle.....	97	55	76.2	0.48								Reedly.....	104				
Oro.....												Represa.....	94	52	72.6	0.00	
Pantano <sup>*1</sup> .....	100	65	77.6	1.08								Rivista.....	100	59	73.6	0.00	
Phoenix.....	113	56	84.0	0.89								Romie					

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
California—Cont'd.	o	o	o	In.	In.	Colorado—Cont'd.	o	o	o	In.	In.	Georgia—Cont'd.	o	o	o	In.	In.
San Miguel* <sup>1</sup>	102	59	79.0	0.00		Saguache	88	36	58.1	1.19		Athens <sup>b</sup>	94	42	71.2	1.45	
San Miguel Island	70	40	54.8	0.00		Salida	92	31	59.4	1.15		Bainbridge	93	45	75.0	1.38	
Santa Barbara <sup>a</sup>	84	52	66.0	0.00		San Luis	89	32	57.8	2.08		Bellville	99	46	76.8	0.80	
Santa Clara <sup>a</sup>	94	40	58.1	0.00		Santa Clara <sup>a</sup>	86	17	56.3	3.10		Blakely	98	46	75.9	0.76	
Santa Cruz <sup>b</sup>	90	40	61.3	0.00		Sapinero	.....	.....	.....	0.55		Camak	94	45	78.2	2.32	
Santa Maria	88	45	64.4	0.00		Sargent's	.....	.....	.....	1.53	T.	Carlton	.....	.....	.....	1.49	
Santa Monica <sup>a</sup>	75	57	66.5	0.00		Seibert	.....	.....	.....	0.36		Clayton	91	37	67.6	2.28	
Santa Paula	90	48	67.8	0.00		Smoky Hill Mine	89	22	56.2	0.60		Columbus <sup>c</sup>	99	50	76.8	0.32	
Santa Rossa <sup>a</sup>	87	47	65.0	0.00		Springfield	.....	.....	.....	2.35		Covington	103	39	73.9	1.54	
Shasta	108	50	79.7	0.00		Strickler Tunnel	.....	.....	.....	1.44	0.8	Crescent	.....	.....	.....	6.16	
Sierra Madre	97	52	74.2	0.01		Tennessee Pass	.....	.....	.....	0.23	0.5	Dahlonega	92	34	66.8	0.76	
Sneeden	.....	.....	.....	0.00		Trinidad	.....	.....	.....	0.98		Diamond	89	.....	.....	2.25	
Sonoma	.....	.....	.....	0.00		Troutvale	82	19	48.0	1.66		Dublin	.....	.....	.....	1.14	
Stanford University	98	43	64.2	0.00		T. S. Ranch	91	43	67.4	0.67		Eastman	98	47	76.7	0.37	
Stockton <sup>a</sup>	95	49	71.9	0.00		Twin Lakes	.....	.....	.....	0.56		Elberton	96	46	72.8	0.99	
Summerdale	88	41	66.4	0.00		Villas	88	19	50.2	2.19		Fitzgerald	94	46	74.1	0.62	
Susanville	86	36	61.1	0.00		Wagon Wheel	88	25	56.0	1.85		Fleming	96	45	75.8	5.80	
Tehama <sup>a</sup>	105	57	74.8	0.00		Wallet	86	25	56.0	1.85		Fort Gaines	94	47	74.2	0.54	
Tejon Ranch	101	56	81.5	T.		Westcliffe	100	30	66.0	0.08		Franklin	96	48	74.4	0.16	
Templeton <sup>a</sup>	105	45	65.4	0.00		Wray	.....	.....	.....	0.17		Gainesville	93	38	69.3	0.40	
Thermalito	106	51	77.9	0.00		Yuma	.....	.....	.....	0.17		Gillisville	97	37	71.6	0.58	
Truckee <sup>a</sup>	78	34	49.5	0.00		Connecticut	.....	.....	.....	0.17		Greenbush	95	36	68.4	1.76	
Tulare <sup>c</sup>	108	46	75.6	T.		Bridgeport	86	36	68.0	4.55		Griffin	96	39	71.7	0.12	
Ukiah	108	38	69.9	0.00		Canton	82	32	58.4	4.88		Harrison	.....	.....	.....	0.43	
Upperlake	105	40	71.8	0.00		Colchester	81	35	60.9	3.47		Hawkinsville	95	47	73.2	0.38	
Upper Mattole <sup>a</sup>	105	50	65.6	1.00		Falls Village	.....	.....	.....	4.82		Hephzibah <sup>a</sup>	92	56	76.5	2.92	
Vacaville <sup>a</sup>	106	54	75.8	0.00		Greenfield Hill	.....	.....	.....	5.07		Jesup	102	42	76.1	1.24	
Ventura	76	48	61.6	T.		Hartford <sup>a</sup>	.....	.....	.....	4.08		Louisville	98	46	75.6	1.91	
Visalia <sup>a</sup>	91	56	67.6	0.00		Hartford <sup>b</sup>	81	41	61.6	4.15		Marshallville	95	45	75.0	0.72	
Visalia <sup>b</sup>	105	45	74.8	0.00		Hawleyville	85	34	61.4	5.67		Mauzy	100	45	75.6	7.62	
Volcano <sup>a</sup>	119	80	93.7	0.18		Lake Konomoc	.....	.....	.....	6.92		Mullen	99	48	75.4	1.16	
Walnut Creek	99	54	73.4	0.00		New London	82	42	61.8	4.32		Morgan	99	41	75.4	0.35	
West Palmdale	.....	.....	.....	0.00		North Franklin	.....	.....	.....	5.25		Newman	94	42	71.8	0.76	
Westpoint	.....	.....	.....	0.00		North Grosvenor Dale	81 <sup>b</sup>	28	57.6	4.40		Oakdale	.....	.....	.....	1.06	
West Saticoy	.....	.....	.....	0.00		Northfolk	.....	.....	.....	4.80		Pelham	95	.....	.....	1.64	
Wheatland	100	44	71.8	0.00		Southington	81	35	60.9	4.13		Point Peter	92	38	69.0	1.14	
Williams <sup>a</sup>	102	55	78.3	0.00		Storms	80	35	59.2	3.31		Poulson	98	40	74.4	0.88	
Wilmingtn <sup>a</sup>	85	60	68.0	0.35		Voluntown	82	32	59.8	8.41		Putnam	95	45	73.4	0.46	
Wire Bridge <sup>a</sup>	99	49	73.7	0.00		Wallingford	.....	.....	.....	8.79		Quinton	94	44	75.5	0.79	
Yreka	93	34	65.0	0.07		Waterbury	88	34	62.6	5.30		Ramsay	97	36	70.1	2.17	
Yuba City <sup>a</sup>	102	51	75.4	0.00		West Cornwall	79	38	58.6	4.21		Rome	99	40	71.3	2.74	
Colorado.	.....	.....	.....	0.00		West Simsbury	.....	.....	.....	4.29		Talbotton	100	42	74.6	1.76	
Antlers	92	40	64.6	1.07		Winsted <sup>a</sup>	82	40	56.4	.....		Tallapoosa	93	36	67.8	0.20	
Arkins	.....	.....	.....	0.19		Delaware	.....	.....	.....	.....		Thomasville	96	46	77.6	0.71	
Aspen	.....	.....	.....	1.15		Millford	91	42	68.8	2.36		Toccoa	93	41	70.4	0.52	
Boulder	93	40	66.0	0.15		Millsboro	92	39	66.8	1.57		Union Point	93	45	71.8	1.25	
Boxelder	.....	.....	.....	0.18		Newark	90	39	63.6	5.27		Washington	94	47	73.0	1.80	
Breckenridge	73	21	45.4	0.29		Seaford	92	41	66.9	2.05		Way Cross	27	58	76.6	2.47	
Buenavista.	.....	.....	.....	0.59		District of Columbia.	.....	.....	.....	.....		Waynesboro	94	42	71.6	0.57	
Canyon	100	35	68.5	0.70		Distributing Reservoir <sup>a</sup>	90	47	67.2	5.89		Westpoint.	96	42	73.2	0.29	
Castlerock	95	27	59.7	T.	Receiving Reservoir <sup>a</sup>	90	46	66.8	6.78		Idaho.	.....	.....	.....	.....		
Cedaredge	89	37	63.1	0.28		West Washington	94	39	66.3	6.30		American Falls	100	32	65.0	0.00	
Cheyenne Wells	103	39	68.3	0.78		Florida.	.....	.....	.....	.....		Atlanta	84	27	54.0	0.63	
Clearview <sup>a</sup>	80	28	46.8	2.62		Archer	95	.....	.....	3.58		Blackfoot	88	29	57.4	T.	
Colorado Springs	98	30	62.9	0.03		Bartow	93	65	79.3	10.58		Challis	89	33	60.6	0.40	
Cripple Creek	.....	.....	.....	1.42		Brooksville	91	58	78.0	6.17		Chesterville	86	14	55.0	0.00	
Crook	103	28	66.8	0.04		Carrabelle	.....	.....	.....	1.80		Downey	91	21	57.1	0.00	
Delta	101	33	65.2	0.40		Clermont	95	63	79.8	1.28		Fort Sherman	90	36	59.2	1.85	
Dumont	.....	.....	.....	0.60		Dalkeith	95	48	76.8	0.14		Gray	86	24	55.0	0.00	
Durango	88	28	61.8	0.60		De Funik Springs	97	45	76.4	0.14		Hagerman	.....	.....	.....	0.09	
Fairview	88	25	60.0	0.52		Ester <sup>b</sup>	91	74	80.4	.....		Idaho City	87°	28°	57.8	T.	
Fort Collins	95	29	61.4	0.21		Eustis	93	58	79.2	6.30		Kootenai	79	26	59.6	0.94	
Fox	.....	.....	.....	0.22		Federal Point	91	68	77.3	4.62		Lakeview	79	39	68.8	2.48	
Garnett	87	28	55.0	1.91		For Meade	94	64	79.8	10.45		Leviston	91	40	68.8	0.71	
Georgetown	82	31	56.3	.....		Gainesville	93	55	77.4	3.98		Lost River	86	27	55.8	0.17	
Gilman	.....	.....	.....	0.36		Homeland	89	63	76.4	.....		Moscow	84	40	59.8	1.38	
Gleneyrie	.....	.....	.....	0.12		Huntington	93	57	77.0	4.84		Murray	82	38	55.3	1.82	
Glenwood	.....	.....	.....	0.23		Inverness	93	59	77.9	2.95		Oakley	95	35	68.8	0.00	
Greeley	98	30	62.9	0.30		Jasper	93	52	76.8	0.65		Ola	93	36	68.4	0.46	
Gunnison	80	23	51.4	0.60		Kissimmee	95	.....	.....	7.03		Paris	86	28	57.8	0.05	
Gypsum	.....	.....	.....	0.87		Lake Butler	97	55	76.8	5.93		Payette	100	36	66.4	0.17	
Hamps	92	29	61.8	0.19		Lake City	97	51	76.8	2.95		Pollock	91	27	63.4	0.71	
Hoehne	96	38	64.4	1.14		Lemon City	90	70	80.7	9.66		Priest River	88	39	60.0	1.35	
Holly	.....	.....	.....	1.18		Maccleeny	97	47	77.5	2.94		St. Maries	87	35	59.6	1.45	
Holyoke (near)	105 <sup>a</sup>	26 <sup>a</sup>	66.6 <sup>a</sup>	0.00		Manatee	90	64	78.4	5.17		Salubria	96	32	61.8	0.19	
Hugo	.....	.....	.....	T.		Merritt Island	92	69	81.2	6.00		Soldier	89	20	55.2	0.04	
Husted	97	34	63.4 <sup>a</sup>	0.07		Myers	93	69	79.8	2.31		Swan Valley	88	18	53.4	T.	
Lake Moraine	75	25	48.8	0.79													

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Illinois—Cont'd.</i>						<i>Indiana—Cont'd.</i>						<i>Iowa—Cont'd.</i>					
Dekatur	108	20	66.4	1.50	Ins.	Kokomo	96	30	68.9	3.88	Ins.	Fonda	0	0	0	Ins.	0.00
Dixon	100	23	68.8	1.48		Lafayette	101	24	65.0	1.68		Forest City	97	22	61.4	1.67	
Dwight	97	23	61.9	2.57		Laporte	103	32	64.5	2.78		Fort Madison					3.72
Effingham	102	24	67.8	0.58		Logansport	97	30	63.4	0.97		Galva	98	20	66.7	0.10	
Elgin	99	25	68.8	2.28		Madison	101	30	69.2	0.69		Gilman					0.28
Equality	103	27	69.4	3.14		Marengo	99	26	67.0	0.88		Gladbrook					0.55
Flora	101	25	67.6	0.80		Marion	101	29	65.2	3.71		Glenwood	100	22	66.0	0.62	
Fort Sheridan	96	32	61.8	2.76		Markie	100	22	63.9	1.60		Grand Meadow <sup>*1</sup>	97	26	59.0	1.21	
Friendship <sup>*1</sup>	100	34	69.7	1.01		Mauzy	101	35	66.0	1.17		Greene	95	19	61.6	1.28	
Galva	101	28	68.8	3.46		Michigan City <sup>*10</sup>	90	35	62.6	.....		Greenfield	97	22	65.2	0.51	
Glenwood <sup>*1</sup>	100 <sup>b</sup>	30 <sup>b</sup>	61.8 <sup>b</sup>	3.41		Mount Vernon	102	29	69.3	1.87		Grinnell	96	25	62.8	0.21	
Grafton						Northfield						Grinnell (near)	98	24	62.7	0.25	
Grayville	101	23	70.5	1.84		Paoli	98	26	67.2	1.58		Griswold					0.59
Greenville	102	30	67.2	0.84		Peru	100	31	63.4	1.55		Grundy Center	99	20	60.2	0.78	
Griggsville	103	29	66.4	3.79		Prairie Creek	105	21	68.8	0.53		Guthrie Center	98 <sup>a</sup>	19 <sup>a</sup>	57.8 <sup>a</sup>	0.57	
Halfway	102	30	70.4	3.08		Princeton	105	27	68.6	2.15		Hampton	100	24	63.1	1.74	
Halliday	104	20	69.9	1.07		Richmond	98	28	64.8	1.49		Harlan	96	20	63.0	0.84	
Havana	97	32	66.2	4.18		Rockport	96	33	70.8	0.78		Hawkeye	97	27	64.4	0.59	
Henry	104	20	64.3	3.12		Rockville	103	26	66.1	1.43		Hopeville					1.27
Hillsboro	103	26	67.1	1.59		Salem	98	25	68.0	0.92		Humboldt	97	21	63.0	1.22	
Joliet	100	28	63.1	3.44		Scottsburg	99	30	67.5	0.86		Independence	98	18	60.8	0.64	
Kankakee	102	35	66.4	2.88		Seymour	101	30	67.6	1.55		Indianola	99	23	64.3	2.12	
Knoxville	100	19	62.8	2.95		Shelbyville	98	31	68.5	1.82		Iowa City	101	20	62.1	0.98	
Lagrange	98	27	61.6	1.73		South Bend	96	31	68.0	4.05		Iowa Falls	98	19	60.6	2.25	
Laharpe	101	28	63.9	2.82		Syracuse	91	32	62.0	2.71		Keosauqua	100	24	65.8	1.35	
LaMar	97	14	61.2	1.38		Terre Haute	108	30	69.0	0.73		Knoxville	98	25	64.5	0.58	
Loami						Topeka	92	31	61.3	2.24		Lacona					0.70
McLeansboro	102	29	69.2	2.02		Valparaiso	100	34	65.1	1.50		Lamoni	96	24	63.4	0.73	
Martinsville	99	23	66.8	0.69		Vevay	99	32	68.9	3.05		Lansing	98	22	61.9	1.57	
Martin	104	20	65.0	2.80		Vincennes	106	30	69.9	0.81		Larrabee	97	16	61.4	0.80	
Mascoutah	104	24	67.4	0.65		Washington	100	35	70.8	1.54		Leclaire					0.89
Mattoon	98	28	67.1	1.02		Winamac	97	24	65.9	2.46		Lemars	96	25	62.5	0.85	
Minonk	104	22	68.4	4.20		Worthington	106	22	67.8	0.71		Lenox	95	25	63.6	0.94	
Monmouth	103	18	64.0	2.26								Logan	97	19	64.0	0.49	
Monticello <sup>*5</sup>	101	25	66.2	1.87								Maple Valley					0.92
Morrisville	99	24	65.0	0.98								Maquoketa	96	17	61.5	1.10	
Mount Carmel												Marshalltown	100	23	68.8	0.78	
Mount Pulaski	102	26	66.4	2.11								Mason City	97 <sup>a</sup>	15 <sup>a</sup>	60.8 <sup>a</sup>	1.40	
Mount Vernon	104	28	67.5	0.90								Melrose					1.37
New Burnside	104	25	70.4	1.58								Monticello					0.56
Olney	101	27	68.4	0.98								Moar	100	25	65.0	3.04	
Ottawa <sup>a</sup>	102	26	64.8	2.15								Mountsyr	98	24	64.8	1.06	
Palestine	101	23	65.8	1.47								Mount Pleasant	101	25	65.0	1.55	
Pana	103	26	65.8	1.35								Mount Vernon <sup>a</sup>	99	32	60.3	0.86	
Paris	103	24	67.2	0.98								Mount Vernon <sup>b</sup>	100	27	64.0	0.80	
Peoria <sup>a</sup>												Murray					0.80
Peoria <sup>b</sup>	104	26	65.6	5.24								New Hampton	89	22	61.9	1.20	
Philo	101	17	64.4	0.50								Newton	99	22	62.9	0.50	
Plumhill	104	25	68.8	0.55								Northboro					0.30
Rantoul	103	24	65.0	2.59								North McGregor					2.29
Raum	100	32	70.2	2.38								Northwood	92	20	59.4	1.08	
Riley	98	24	62.0	1.59								Odebolt	99	20	63.9	0.44	
Robinson	103	25	68.3	0.87								Ogden	97	22	68.1	1.25	
Rockford	98	23	68.0	1.61								Olin	96	17	61.4	0.96	
Roundgrove	103	19	63.1	0.96								Onawa	102	23	66.0	0.52	
St. Charles <sup>*1</sup>	93 <sup>a</sup>	25	59.5 <sup>a</sup>	3.10								Osage	89	20	60.8	1.93	
St. John	104	27	70.4	0.84								Osceola	99	23	64.8	1.07	
Savanna	98	14	62.2	1.11								Oskaloosa	99	23	68.4	0.88	
Scales Mound	94	15	60.4	1.14								Ottumwa	102	26	65.6	1.38	
Strawn	101	25	64.8	3.79								Ovid	100	28	64.7	0.94	
Streator	103	20	62.0	2.73								Pacific Junction	97	20	64.2	0.46	
Sullivan	103	24	66.6	1.09								Pella	91	25	60.7	0.44	
Sycamore	99	23	61.4	1.73								Florence	99	19	63.8	0.44	
Tilden	105	23	68.7	0.98								Pringhar	98	17	60.5	0.00	
Tiskillwa	100	25	64.0	2.55								Redoak	100	26	67.0	0.80	
Tuscola	103	21	65.9	0.72								Ridgeway	90	26	60.8	1.87	
Walnut	101	23	64.5	1.91								Rockwell City	97	20	62.0	0.72	
Wheaton <sup>*11</sup>	90	20	60.2	2.21								Ruthven	97	17	62.4	1.40	
Winchester	99	23	64.6	4.67								Sac City	96	21	62.6	0.55	
Winnebago	98	18	62.0	1.68								Scranton	97	24	62.2	0.72	
<i>Indiana.</i>												Sibley	99	15	59.5	0.92	
Anderson	98	26	65.1	3.08								Sigourney	103	21	61.0	1.92	
Angola	92	28	60.8	3.21								Sioux Center	96	23	62.2	0.15	
Auburn	94	29	61.5	2.17								Spirit Lake	98	21	62.2	0.30	
Bedford	105	23	68.2	1.19								Storm Lake	94	23	62.4	0.83	
Bloomington	100	28	68.1	0.48								Stuart	98	24	64.1	.....	
Bluffton	100	31	64.8	1.59								Tara	100	.....	.....	0.75	
Bright	104	23	65.4	0.48								Thurman	96	23	64.6	0.78	
Butterville	108	25	67.4	1.85								Toledo	103	17	64.6	0.45	
Cambridge City	99	25	68.6	1.28								Villisca	100	25	68.2	0.57	
Columbia City <sup>*1</sup>	90	32	60.8	4.28								Wapello	100	23	63.9	1.24	
Columbus	102	27	66.0	1.41								Washington	101	24	61.4	0.90	
Connersville	99	27	65.1	1.39								Washita					0.27
Delphi	100	25	64.0	2.24								Waterloo	97	19	61.6	0.84	
Edwardsville <sup>*12</sup>	94	30	68.8														

TABLE II.—*Climatological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Kansas—Cont'd.</i>	°	°	°	Ins.	Ins.	<i>Kentucky—Cont'd.</i>	°	°	°	Ins.	Ins.	<i>Maryland—Cont'd.</i>	°	°	°	Ins.	Ins.
Anthony	100	81	67.9	1.95		Marrowbone	100	80	68.8	4.37		Easton	98	41	67.4	4.38	
Atchison a	100	81	68.8	1.58		Maysville	103	81	68.4	2.92		Ellicott City	90	38	63.2	9.35	
Atchison b	102	81	68.8	1.58		Middleboro	98	80	66.6	2.12		Fallston	87	40	63.8	7.29	
Augusta	99	86	69.8	2.69		Mount Hermon	96	80	69.0	1.60		Frederick	91	39	65.8	3.93	
Baker	99	87	67.2	1.94		Mount Sterling	97	82	66.5	1.89		Frostburg	99	36	63.3	4.47	
Burlington	98	84	68.4	0.67		Owensboro	101	82	69.4	1.81		Grantsville	86	31	68.6	3.77	
Campbell	102	89	67.8	1.18		Owenton	103	81	69.5	1.50		Greatfalls	90	34	65.4	4.27	
Centropolis *1	103	80	67.1	1.95		Paducah a	104	87	72.4	1.86		Greenspring Furnace	94	36	64.4	3.08	
Colby	107	82	67.8	0.75		Paducah b	104	87	72.4	1.86		Hancock	97	32	64.4	2.89	
Columbus	98	84	69.2	0.98		Princeton	101	81	69.0	0.45		Harney				4.28	
Coolidge	102	86	66.8	1.25		Richmond	101	82	69.2	2.31		Jewell	98	42	66.4	4.81	
Cunningham	100	87	69.8	3.02		Russellville	96	81	68.5	0.32		Johns Hopkins Hospital	94	41	66.0	7.21	
Delphos	102	88	69.4	2.28		St. John	99	27	67.2	0.88		Laurel	95	37	65.6	5.49	
Dresden	104	84	67.8	1.24		Scott	102	89	67.8	0.63		McDonogh	88	35	64.2	9.48	
Ellinwood	101	87	68.1	2.96		Shelby City	104	80	68.0	2.18		Mardela Springs	92	40	67.0	3.68	T.
Emporia	95	88	67.2	4.10		Shelbyville	103	88	69.1	1.49		Mount St. Marys Coll.	90	40	65.4	5.28	
Englewood	101	85	70.0	3.02		Vanceburg	100	83	65.2	2.05		Newmarket	91	40	65.2	5.29	
Eskridge	100	84	68.5	1.76		Williamsburg	98	82	69.4	3.53		Pocomoke City	94	43	68.4	0.80	
Eureka				1.99		Louisiana.						Princess Anne	94	35	65.5		
Eureka Ranch	108	88	68.8	1.84		Alexandria	101	40	74.6	1.91		Queenstown	90	39	66.2	4.03	
Fallriver	103	84	69.2	2.07		Amitie	99	44	75.1	3.19		Rockhall b	90	41	65.0	3.87	
Fanning	98	25	64.2	1.38		Bastrop	106	88	75.0	0.64		Sandy Point	95	42	70.6	0.87	
Fort Scott	104	86	70.7	1.83		Baton Rouge	98	46	75.4	1.13		Sharpsburg *	92	39	63.4	4.04	
Frankfort	102	27	67.8	1.30		Calhoun	100	89	73.2	0.49		Solomons	99	47	71.4	5.17	
Garden City	102	88	69.6	1.93		Cheneyville	99	40	74.0	7.75		Sudlersville	89	48	66.0	3.58	
Garfield				2.14		Clinton	95	41	73.2	0.55		Sunnyside	90	25	58.8	3.76	T.
Gibson	104	82	69.8	1.04		Como	99	40	72.7	1.10		Takoma Park	95	39	66.9	5.95	
Grenola	100	87	69.0	3.03		Covington	97	43	75.5	2.90		Taneytown	80*	38	68.6	4.86	
Halstead	103	86	68.7	1.97		Donaldsonville	95	49	75.2	1.80		Van Bibber	88	35	63.9	7.00	
Hays	104	82	69.6	2.80		Elm Hall	94	47	74.6	1.27		Westernport	90	29	62.0	4.05	
Horton	99	80	66.9	0.99		Emilie	98	48	74.6	1.49		Woodstock	88	37	64.0	5.96	
Hutchinson	99	89	69.8	2.31		Farmerville	100	88	72.8	0.46		Massachusetts.					
Independence	101	87	70.5	0.72		Franklin	95	47	74.0	3.69		Adams	80	35	58.1		
Lawrence	98	26	67.4	2.78		Grand Coteau	97	44	74.4	3.85		Amherst	84	38	59.2	6.97	
Lebanon c	100			0.00		Hammond	98	48	75.1	1.35		Attleboro				10.21	
Lebo	99	82	68.2	2.21		Houme	95	52	76.7	1.39		Bedford	81	35	58.4	3.72	
Macksville	99	37	69.0	2.77		Jeanerette	101	42	74.7	2.20		Bluehill (summit)	81	39	60.2	7.55	
McPherson	104	86	69.8	8.07		Jennings	97	44	74.4	3.25		Cambridge	86	39	62.2	4.81	
Manhattan b	103	84	69.4	1.75		Lafayette	98	43	74.8	1.66		Chestnuthill	85	36	62.0	5.38	
Manhattan c	102	29	69.4	1.69		Lake Charles	98	47	76.2	3.79		Cohasset				7.88	
Marion	99	86	69.5	2.05		Lake Providence	100	45	75.2	1.01		Concord	86	38	58.8	4.01	
Medicine Lodge	101	89	69.8	3.57		L'Argent	98	48	74.4	1.28		Dudley	88*	37	61.5	3.75	
Minneapolis	103	81	68.8	2.12		Lawrence	96	54	77.6	2.05		East Templeton *1	84	37	57.6	3.89	
Osgood	102	88	72.4	0.55		Libertyhill	106	40	75.6	0.29		Fallriver	78	48	62.2	6.64	
Ottawa	100	82	67.2	1.28		Mansfield	104	40	74.0	1.85		Fishdale				3.81	
Paola	101	82	66.0	0.75		Melville	97	43	74.0	0.55		Fitchburg a *1	78	40	57.8	4.73	
Phillipsburg	108	80	67.6	0.39		Minden	105	40	74.9	1.60		Fitchburg b	84	34	58.8	4.82	
Pratt	100	89	69.8	3.34		Monroe	101	43	75.2	0.28		Framingham	87	35	61.6	3.78	
Rome *1	100	40	69.9	2.63		Montgomery	106	42	74.4	1.75		Groton	82	31	58.6	3.89	
Russell	101	86	69.2	1.77		New Iberia	94	49	75.1	1.35		Hyannis *1	78	42	61.1	2.58	
Salina'	100	36	70.6	1.88		Oakridge	102	36	72.4	0.15		Jefferson				3.84	
Scott	103	82	68.2	1.38		Opelousas	98	42	74.0	1.66		Lawrence	82	37	60.8	3.96	
Sedan.	100	88	70.1	1.18		Paincourtville	97	45	74.7	4.11		Leeds	83	33	57.9	6.87	
Seneca	100	26	66.6	1.26		Plain Dealing	103	88	72.2	1.00		Leicester	82	35	58.4	3.07	
Toronto	103	88	66.9	1.60		Plaquemine	100	47 <sup>b</sup>	76.8 <sup>a</sup>	1.65		Leominster				4.49	
Tribune	103	85	67.6	0.63		Prevost	100	49	78.4	0.31		Longplain				5.99	
Ulysses	102*	85*	70.2	1.40		Rayne	99	44	75.6	1.31		Lowell a	82	36	61.0	3.66	
Valley Falls	101	81	67.5	2.92		Ruston	104	44	75.0	0.48		Lowell b	81	35	59.8		
Viroqua	101	40	69.0	2.46		Schriever	97	43	75.1	2.98		Ludlow Center	80	30	56.2	4.40	
Wakeeney				1.61		Shellbeach	98	48	76.2	2.97		Middleboro	80	33	59.8	7.12	
Wallace				1.10		Southern University	95*	50 <sup>c</sup>	75.8 <sup>a</sup>	0.08		Monson	81	34	59.6	3.29	
Wamego *1	101	84	66.4	1.38		Sugar Ex. Station	94	62	76.0	0.80		New Bedford a	78	42	61.5	6.50	
Winfield	100	88	70.2	3.90		Sugartown	95	48	75.4	8.76		New Salem	82	36	57.8	5.98	
Winona				0.50		Venice	98	55	76.6	7.96		Pittsfield	78	34	58.7	5.82	
Yates Center	99	34	68.7	1.55		Wallace	98	46	75.6	0.39		Plymouth *1	78	41	58.1	6.93	
Kentucky.						White Sulphur Springs.	99	45	77.0	2.10		Princeton				4.15	
Alpha *2	100	84	67.0	2.68		Maine.						Provincetown	85	44	64.4	4.85	
Bardstown	104	29	70.6	1.55		Belfast	70	43	57.3	4.80		Salem				6.11	
Blandville	95	82	68.0	3.29		Calais	80	24	56.0	2.87		Somerset *1	88	38	64.4	6.76	
Bowling Green	99	85	71.0	0.71		Cornfield	79	30	57.2	3.58		South Clinton				4.63	
Burnside				2.61		Fairfield	84	26	55.8	8.26		Springfield Armory	85	37	61.4	3.88	
Canton *1	100	86	70.8	0.05		Flagstaff	84	28	58.8	1.73		Sterling				3.83	
Carrollton	98	34	71.0	0.90		Gardiner	83	33	58.5	8.90		Taunton c	78	33	59.6	9.05	
Catielttsburg	99	28	65.8	8.79		Lewiston	87	35	58.5	3.65		Webster				3.95	
Earlington	97	32	68.8	0.68		North Bridgton	85	31	57.6	8.98		Westboro	85	34	61.7	4.04	
Edmonton	97	34	67.8	1.28		Orono	88	23	56.6	8.20		Weston	83	34	59.2	4.84	
Eubank	101	80	67.3	2.24		Petit Menan *1	65	45	54.7	.....		Williamstown	79	33	57.5	5.31	
Falmouth				1.54		Rumford Falls											

TABLE II.—Climatological record of voluntary and other cooperating observers.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Michigan—Cont'd.</i>						<i>Minnesota—Cont'd.</i>						<i>Mississippi—Cont'd.</i>					
Birmingham	° 96	° 21	° 58.4	2.62	Ins.	Brainerd	° 86	° 21	° 55.3	2.60	Ins.	University	° 100	° 38	° 73.4	2.00	Ins.
Boon	87	23	52.6	3.35	1.5	Caledonia	87	20	55.9	1.62	T.	Walnutgrove	100	39	70.7	3.85	
Calumet	73	28	50.8	3.08	2.0	Campbell	84	17	54.0	1.21	T.	Watervalley *1	95	40	72.6	0.50	
Carsonville	90	28	57.8	3.60		Collegeville	86	26	58.1	0.85	T.	Waynesboro	95	39	73.3	0.11	
Charlevoix	89	28	57.8	2.90		Crookston	86	23	54.4	1.08		Windham	93	37	74.0	1.10	
Cheboygan	91	29	56.2	3.50	T.	Deephaven						Woodville	97	45	74.0		
Clinton	96	29	61.4	2.94		Detroit City	84	15	53.4	0.82	2.0	Yazoo City	105	39	73.7	1.87	
Coldwater	94	28	59.3	2.29	T.	Farmington	87	20	57.4	1.33	T.	<i>Mississippi.</i>					
Eagle Harbor	80	33	52.2	2.86	T.	Fergus Falls	87	21	55.6	1.88	0.5	Appleton City	104	34	70.4	1.68	
East Tawas	87	28	55.8	1.38		Glencoe	87	19	57.2	1.10		Arthur *2	98	40	65.2	1.35	
Eloise	95	30	61.8	2.21		Grand Meadow	91	25	57.8	1.51	T.	Avalon	98	39	67.2	1.89	
Ewen	80	30	51.2	1.50		Granite Falls	89	15	56.0	1.00		Bethany	103	28	65.4	1.26	
Fairview	91	31	60.0	3.48	6.0	Hallcock	86	18	53.7	0.21		Birchtree	100	28	68.0	0.77	
Fitchburg	96	26	59.6	1.60		Lake City	87	21	59.0	2.20		Boonville					
Flint	92	28	57.4	5.06		Lakeside	92	20	56.4	0.27	T.	Brunswick	95	32	65.2	1.81	
Gladwin	90	26	56.0	1.80	T.	Lake Winnibigoshish	77	27	53.7	3.79		Carrollton	98	33	66.8	2.00	
Grand Rapids	98	31	60.6	3.90		Leech	82	21	54.2	2.59		Conception	98	33	65.4	1.21	
Grape	96	28	62.8	2.23		Leroy	88	20	60.0	1.80		Cook Station	107	21	67.4	0.70	
Grayling	88	24	52.8	1.85		Long Prairie	87	18	54.4	1.12	T.	Cowgill *6	100	30	66.3	2.08	
Hanover	95	27	60.2	3.34		Luverne	93	24	58.0	0.24		Darksville	99	30	64.6	1.75	
Harbor Beach	92	21	57.4	2.84		Lynd	92	33	61.8	0.26		Downing					
Harrison	97	28	56.7	1.85	T.	Mapleplain	88	29	57.2	1.72	T.	East Lynne *8	92	32	62.9	0.61	
Harrisville	87	29	55.3	2.41		Milaca	88	20	55.8	1.73		Edgehill *6	98	28	64.8	3.29	
Hart	91	30	56.8	3.03	1.0	Milan	93	14	57.1	0.19		Eightmile *1	98	32	66.5	0.54	
Hastings	95	25	58.6	3.64		Minneapolis	89	23	57.4	1.35	T.	Elidon	103	31	67.4	3.74	
Hayes	93	30	58.4	2.91		Minneapolis	85	19	56.0	1.23		Elmira	99	36	64.3	1.56	
Highland Station				2.08	T.	Minneapolis City *1	85	20	59.9	1.28		Fairport					
Hillsdale	93	26	59.2	3.13	T.	Montevideo	85	14	55.8	0.17		Fayette	101	30	66.8	2.72	
Holland *10	83	36	60.6			Morris	90	20	57.5	0.78		Fulton					
Howell				1.25		Mount Iron	76	18	49.8	4.34	0.5	Galena					
Humboldt	84	23	47.6	5.31	1.0	Newfolden	82	17	52.6	1.50	0.1	Gallatin *1	100	30	67.1	1.47	
Ionia	96	28	59.5	3.80		New London	88	22	58.8	0.32		Gayoso	99	32	69.2	1.26	
Iron Mountain	89	25	52.5	2.48	T.	New Richland	88	33	58.7			Glasgow	100	30	66.6	2.04	
Iron River	83	19	52.4	2.01	T.	New Ulm	88	21	58.4	1.24		Gorin					
Ishpeming	85	26	51.0	4.93	4.0	Park Rapids	80	20	52.0	1.73	2.2	Halfway	103	31	69.4	2.72	
Ivan	89	26	58.8	2.40	1.5	Pine River	81	20	53.4	8.07	T.	Harrisonville	102	29	67.8	0.50	
Jackson	96	27	60.4	3.89		Pipestone	15					Hazlehurst					
Jeddo	92	28	56.2	3.88		Pleasant Mounds	96	19	59.2	0.15		Hermann					
Kalamazoo	95	30	61.2	3.45		Pokegama Falls	81	17	61.7	2.83	2.1	Houston	102	29	66.7	0.88	
Lake City	97	27	55.8	2.50		Reeds						Houstonia (near)					
Lansing	95	23	57.4	2.24	T.	Rolling Green	93	18	58.7	0.28		Irena					
Lapeer	93	28	57.8	4.65		Roseau	80	23	54.1	0.92		Ironton	104	28	66.9	2.76	
Lathrop	86	24	49.6	5.28		St. Charles	87	22	57.2	1.26		Jackson *8	95	34	67.0	2.48	
Ludington	84	24	54.7		0.7	St. Cloud	85	24	58.2	0.95		Jefferson City	105	29	68.2	3.16	
Luverne	87	23	53.1	2.32		St. Peter	89	25	58.9	0.50		Kidder	100	28	66.0	2.45	
Mackinaw	89	23	53.8	6.27	T.	Sandy Lake Dam	79	25	53.5	2.67	0.3	Lamar	102	33	70.0	2.59	
Madison	93	29	61.0	2.59		Shakopee	90	19	59.4	1.19		Lamonte					
Mancelona	88	26	52.0	3.38	6.0	Tower	80	13	50.9	3.55	2.0	Lebanon	103	35	70.0	1.38	
Menominee	90	27	55.8	2.03	T.	Two Harbors	83	25	54.0	3.67	T.	Lexington	100	31	68.2	1.70	
Middle Island	10	78	55.8			Wabasha	87	25	58.1	2.04		Liberty	99	28	68.8	1.44	
Midland				2.01		Willmar	87	21	56.7	0.55		Louisiana	105	25	67.0	3.56	
Mottville	99	29	61.2	2.27	T.	Willow River	84	18	54.0	5.26	T.	McCune *1	100	34	66.4	4.40	
Mount Clemens	96	28	59.9	2.11		Winnebago City	97	25	60.1	0.75		Macon	102	27	66.8	1.52	
Mount Pleasant				3.02	T.	Zumbrota	86*	18	58.0			Marblehill	103	24	67.8	2.04	
Muskegon	87	34	58.6	4.23	T.	<i>Mississippi.</i>						Marshall	100	29	65.8	2.09	
Newberry	82	22	48.6	5.24	T.	Aberdeen	96	86	70.4	0.15		Maryville	99	28	65.2	0.92	
North Manitou Island	10	83	56.2			Agricultural College	97	48	73.8	1.15		Mexico	108	22	68.2	4.35	
Northport	86	27	56.3	1.94		Americus	98	47	76.1	1.65		Miami *5	98	35	67.0	1.58	
Old Mission	90	30	57.0	2.49	T.	Austin	94	37	70.6	0.93		Mineralspring	99	30	66.2	0.75	
Olivet	92	30	59.1	2.89	T.	Batesville	97	34	70.2	0.94		Montreal	102	27	67.8	2.87	
Omer				1.75		Bay St. Louis	95	52	76.6	1.68		Mount Vernon	103	22	72.2	3.01	
Ovid	93	28	58.3	4.01		Biloxi	90	44	70.7	0.43		Neosho	100	30	68.4	2.39	
Owosso	97	27	58.9	2.99		Booneville	99	36	71.6	0.11		Nevada	101	31	68.6	2.65	
Petoskey	88	29	54.5	2.38	T.	Brookhaven	102	41	73.8	2.00		New Haven	105	29	68.6	2.76	
Plymouth	96	28	60.2	3.12		Canton	101	39	72.8	0.57		New Madrid	99	32	71.8	1.70	
Port Austin	91	32	58.4	3.00	T.	Columbus	95	40	73.9	0.12		New Palestine	102	30	68.4	2.64	
Reed City	91	25	55.3	2.33		Columbus	96	38	71.2	0.28		Oakfield	104	30	68.9	1.97	
Romeo	90	29	59.4	2.56		Corinth	96	43	73.8	1.22		Olden	101	29	67.0	1.15	
Saginaw	95	26	58.7	2.93		Crystalsprings	99	43	73.8	1.22		Oregon a	97	30	66.4	1.09	
St. Ignace	67	29	53.8	1.98	T.	Edwards	97	44	74.0	2.89		Oregon b	100	32	69.8	1.28	
St. Johns	92	27	59.2	3.40	T.	Fayette	95	41	73.0	1.75		Palmyra *8	100	30	65.7	2.43	
St. Joseph	93	32	62.2	2.81	0.2	Fayette (near) *1	99	49	74.8	1.74		Phillipsburg	104	33	67.1	0.85	
Somerset	92	27	59.5	3.02		Greenville a	98	46	72.6	1.15		Poplarbluff	101	31	70.0	2.32	
South Haven	89	32	60.8	2.88	T.	Greenville b	98	45	73.8	1.18		Potosi	101	16	62.0	2.39	
Stanton	92	24	58.5	4.12	T.	Greenwood	96	41	72.0	1.95		Princeton	102	27	66.4	1.10	
Thomaston	80			2.53	2.0	Hattiesburg	95	45	74.6	0.80		Rhineland	104	25	67.6	1.37	
Thornville	98	29	59.0	2.88	T.	Hazlehurst	45					Richmond	98	33	67.4	1.69	
Traverse City	92	32	58.7	1.88	0.5	Hernando	97	41	72.2	0.00		Rolla					
Vandalia	96	30	62.0	3.51	T.	Holly Springs	99	40	72.9	0.10		St. Charles	103	31	68.2	1.62	
Vassar	94	27	57.4	1.90		Lake	98	37	70.8	0.80		St. Joseph					
Vermilion Point	10	80	49.7			Leakesville	100	37	74.8	0.55		Sarcocie *8	92	32	66.5	2.99	
Waspepi	92	29	60.4	3.35	T.	Logtown	95	46	75.5	0.50		Sedalia	103	27	68.2	1.77	
Waverly	90	28	58.9	5.16	T.	Louisville	101	38	71.9	2.00		Seymour	100	31	67.6	1.97	
West Harrisville	86	28	54.0	3.34							Sheibina						
Wetmore	85	22	49.8	5.88	2.0						Sikeston	100	29	69.3	2.72		
Whitecloud	91	25	59.0	3.25							Steffenville	101	28	66.6	1.48		
Ypsilanti	93	28	58.6	3.01							Stellada	102	31	68.4	1.01		

TABLE II.—*Olimatological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Missouri—Cont'd.</i>																	
Zeitonia.	103	27	67.3	In.	1.99	In.	Holdrege.	90	26	62.7	0.70	Nevada—Cont'd.	o	o	o	Ins.	Ins.
<i>Montana.</i>							Hooper* <sup>1</sup> .	98	26	62.7	1.58	Golconda* <sup>1</sup> .	84	40	58.0	T.	
Adel.	85	21	51.9	1.29			Imperial.	103	30	65.6	0.29	Halleck* <sup>1</sup> .	95	39	55.4	0.00	
Boulder.	83	27	54.0	0.62			Johnstown.					Hawthorne <sup>b</sup> .	98	41	63.8	0.00	
Canyon Ferry.	86	35	59.8	0.64			Kearney.					Hot Springs.					
Chinook.	88	28	57.9	0.00			Kennedy.	95	25	62.2	0.00	Humboldt* <sup>1</sup> .	88	47	66.6	0.01	
Columbia Falls.	88	33	55.1	2.31			Kimball.	97	28	62.9	0.00	Lee.					
Corvallis.	90	30	63.6	0.08			Kirkwood* <sup>1</sup> .	91	31	60.8	0.30	Lewers Ranch.	90	36	61.4	0.00	
Crow Agency.	91	30	60.4	0.17			Lexington.	102	25	64.2	0.65	Los Vegas.	94	51	71.2	0.00	
Deerlodge.	87	25	54.4				Lincoln <sup>b</sup> .	102	26	66.5	0.68	Lovelock* <sup>1</sup> .	92	49	64.7	0.00	
Ekalaks <sup>a</sup> .	89	21	59.8	0.18			Lincoln <sup>d</sup> .	103	27	67.4	0.60	Martins.	87	32	62.8	0.00	
Fort Benton.	90	34	61.4	1.26			Lodgepole.	99	27	62.9	0.00	Mill City* <sup>1</sup> .	95	38	63.9	0.00	
Fort Keogh.	97	30	61.4	0.80			Loup* <sup>1</sup> .	104	24	62.3	1.36	Monitor Mill.	88	33	58.9	0.16	
Fort Logan.	90	28	54.2	0.30			Lynch.	93	18	61.3	0.17	Palisade* <sup>1</sup> .	89	44	63.5	0.00	
Glasgow.	90	23	58.0	0.00			Lyons.					Palmetto.	90	30	67.3	T.	
Glendive.	94	23	61.3	0.05			McCook.					Reno State University.	90	38	64.2	T.	
Glenwood.	94	29	55.8	0.11			Madison.	99	21	68.6	0.72	Silverpeak.	98	44	71.4	0.00	
Greatfalls.	88	37	59.6	0.76			Madrid* <sup>5</sup> .	102	28	61.0	0.00	Sodaville.	96	41	70.7	T.	
Kipp.	87	24	53.8	3.15	T.		Marquette.					Tecoma* <sup>1</sup> .	95	42	57.4	0.00	
Manhattan.	85	23	54.5	0.16			Merriman.					Toano* <sup>1</sup> .	88	36	65.9	0.00	
Martinsdale.	85	29	57.4	0.05			Minden <sup>c</sup> .	104	25	66.6	0.90	Tuscarora.	84	34	58.0	0.00	
Marysville.	84	38	56.4	0.58			Minden <sup>d</sup> .					Tybo.	86	42	65.5	T.	
Missoula.	87	34	59.5	1.60			Nebraska City <sup>b</sup> .					Verdi* <sup>1</sup> .	88	40	65.0	0.00	
Ovando.	88	28	53.2	0.93			Nebraska City <sup>c</sup> .	100	26	72.0	0.92	Wadsworth* <sup>1</sup> .	88	36	64.1	0.00	
Parrot.	85	38	57.7	0.28			Nemaha* <sup>1</sup> .	99	30	66.6	0.64	Well.	85	24	58.8	0.20	
Plains.	85	34	59.2	1.48			Nesbit.	96	25	64.0	0.80	<i>New Hampshire.</i>					
Poplar.	89	27	58.6	T.			Norfolk <sup>b</sup> .	101	20	62.6	0.86	Alstead.					
Ridge.	99	25	59.6	0.87			North Loup.	103	24	65.0	0.99	Berlin Mills.	86	27	54.0	3.84	T.
St. Pauls.	87	32	59.8				Oakdale.	102	20	62.4	1.57	Bethlehem.	78	30	56.3	3.88	
Troy.	87	31	57.8	2.34			Odell.					Brookline* <sup>1</sup> .	86	30	56.4	5.71	
Utica.	92	33	59.6	0.28			O'Neill.	96	19	60.7	0.70	Clarendon.	84	28	57.2	3.16	
Wibaux.	88	31	57.4	0.28			Osceola.					Concord.	81	28	57.2	4.28	
Yale.	88	25	55.6	0.18			Ough.					Durham.	80	33	58.0	5.12	
<i>Nebraska.</i>							Palmer <sup>b</sup> * <sup>c</sup> .	100	28	67.9	0.52	Grafton.	82	23	55.0	3.48	
Age* <sup>1</sup> .							Palmyra.					Hanover.	84	28	56.8	4.14	
Albion.	90	20	60.8	0.10			Paxton.					Keene.	83	27	57.6	3.83	
Alliance.							Plattsburgh <sup>b</sup> .					Littleton.	80	29	55.4	3.43	
Alma.	104	28	66.6	0.21			Pleasant Hill.					Nashua.	85	32	60.4	4.45	
Ansley.	100	21	62.0	0.95			Ravena <sup>c</sup> .	102	22	64.8	0.45	Newton.	82	31	57.8	4.83	
Arborville* <sup>1</sup> .	106	36	66.2	1.18			Ravenna <sup>b</sup> .					North Conway.	83	30	56.9	8.00	
Ashland <sup>a</sup> .	102	23	67.0	0.58			Redcloud <sup>a</sup> .					Peterboro.	85	27	57.0	5.19	
Ashland <sup>b</sup> * <sup>1</sup> .	104	23	67.9	0.50			Redcloud <sup>b</sup> .	100	25	66.7	0.09	Plymouth.	81	25	55.6	3.09	
Aston.							Reedcloud.					Sanbornton.	81	29	56.0	3.14	
Auburn.	100	21	65.4	0.70			Springview.	94	37	65.8	0.90	Stratford.	84	25	55.8	2.30	
Aurora* <sup>1</sup> .	104	23	68.1	0.90			St. Libory.					<i>New Jersey.</i>					
Bartley.							St. Paul.					Asbury Park.	87	42	65.9	3.62	
Beatrice.	100	24	65.4	0.46			Salem* <sup>1</sup> .	98	27	61.4	0.00	Bayonne.	89	44	66.4	4.77	
Beaver City.	108	28	68.4	0.43			Seward* <sup>1</sup> .	103	35	65.6	0.20	Belvidere.	89	42	61.3	7.68	
Bellevue.							Smithfield.					Bergen Point.	86	45	65.4	5.06	
Benedict.							Spragg.					Beverly.	91	39	66.1	4.83	
Benkleman.							Springview.	94	37	65.8	0.90	Billingsport* <sup>1</sup> .	87	48	65.3	4.77	
Blair.	99	28	64.4	0.51			Stanton* <sup>1</sup> .	96	28	61.6	0.41	Boonton.	89	33	62.0	6.04	
Bluehill.							State Farm.	104	23	66.9	0.62	Bridgeton.	88	39	66.6	4.96	
Bradshaw.							Strang.					Camden.	85	43	64.8	3.65	
Brokenbow.							Stratton.					Cape May C. H.	93	41	66.9	3.88	
Burchard.							Superior* <sup>5</sup> .	103	32	65.9	T.	Charlotteburg.	85	30	60.0	5.73	
Burwell.							Syracuse.					Chester.	86	35	61.3	7.19	
Callaway.	102	25	61.4	0.75			Tablerock.					Clayton.	90	37	65.1	3.62	
Camp Clarke.	103	30	65.7	T.			Tecumseh <sup>b</sup> .	102	24	65.5	0.19	College Farm.	88	39	64.6	7.80	
Central City.							Tecumseh <sup>c</sup> .					Deckertown.	84	34	61.8	8.06	
Chester.							Tekamah.	99	23	64.4	0.75	Dover.	88	34	61.4	6.34	
Clatonia.	103	26	67.8	1.43			Thedford.					Egg Harbor City.	89	37	64.1	3.66	
Columbus.	99	25	64.2	0.98			Turlington.	100	27	66.6	0.75	Elizabeth.	88	40	65.1	6.14	
Creighton.	94	18	60.7	0.10			Valentine.	96	27	63.1	0.10	Englewood.	88	39	64.0	6.61	
Crete.	100	23	64.4	0.43			Wakefield.	102	17	68.1	0.37	Flemington.	91	37	64.0	9.61	
Culbertson.							Wellfleet.					Freehold.	82	41	63.9	8.85	
Curtis <sup>a</sup> .	102 <sup>d</sup>	24 <sup>d</sup>	66.8 <sup>d</sup>	0.55			Strang.					Friesburg.	89	40	65.8	8.72	
David City.	101	27	64.0	1.10			Tekamah.	99	23	64.4	0.75	Hammonton.					
Dawson.	100	27	68.4	1.09			Whitford.					Hanover.	83	36	62.6	7.71	
Eden.							Wilhite* <sup>1</sup> .	100	30	65.5	0.39	Hightstown.	85	42	66.7	5.07	
Edgar <sup>a</sup> .							Willard.					Lambertville.	89	40	65.4	8.10	
Elba.							Wilsonville* <sup>1</sup> .	103	32	67.0	0.00	Lebanon.					
Ericson* <sup>1</sup> .	102	32	64.2	0.56			Wisner.					Moorestown.	88	40	65.0	4.12	
Ewing.							Wymore* <sup>1</sup> .	98	27	65.2	1.46	Mount Pleasant.					
Fairbury.	103	23	66.2	0.58			York* <sup>1</sup> .	101	28	65.4	0.55	Newark.	87	34	61.8	6.21	
Fairfield.	104	26	66.8	0.50								Ocean City.	90	42	65.6	5.97	
Fairmont.	103	23	67.2	0.15								Oceanic.	84	42	64.2	4.73	
Fort Robinson.	99	30	60.9	0.50								Paterson.	86	41	65.1	6.05	
Fremont.	100	24	63.8	0.61								Perth Amboy.	87	43	65.1	8.19	
Geneva.	99	28	65.2	0.17								Plainfield.	88	36	63.4	8.87	
Genoa.	104																

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>New Mexico.</i>	o	o	o	Ins.	Ins.	<i>New York—Cont'd.</i>	o	o	o	Ins.	Ins.	<i>North Carolina—Cont'd.</i>	o	o	o	Ins.	Ins.
Albert	100	45	69.8	2.40		Mayle	.....	.....	.....	8.21		Roxboro	99	38	66.9	2.16	
Albuquerque	98	45	69.0	1.20		Middletown	80	39	61.4	7.38		Salem	99	38	69.0	1.87	
Alma	101	42	68.3	1.10		Mohonk Lake <sup>1</sup>	80*	35	61.8	8.90		Salisbury	100	42	71.2	1.53	
Aztec	98	38	65.8	0.61		Mount Morris	88	30	56.6	1.74	T.	Saxon	99	34	68.3	4.08	
Bellanca	.....	.....	.....	2.54		Newark Valley	.....	.....	.....	1.57		Seims	102	40	71.0	3.40	
Bernalillo	94	45	69.6	1.70		New Lisbon	85	36	55.5	3.25	T.	Settle	99	35	67.5	2.18	
Bluewater	94	30	62.5	0.90		North Germantown	84	38	62.2	6.17		Sloan	95	41	72.6	0.70	
Cambrey	.....	.....	.....	0.98		North Hammond	86	40	59.8	3.90		Soapstone Mount	100	38	68.3	2.67	
Deming	.....	.....	.....	0.54		North Lake	81	39	55.8	3.08	T.	Southern Pines a	103	45	73.8	4.84	
East Las Vegas	90	36	60.6	2.87		Number Four	80	38	55.0	3.14	T.	Southern Pines b	94	45	71.5	4.34	
Eddy	100	48	74.5	0.95		Nunda	90	33	55.8	2.88	T.	Southport	91	50	75.2	0.55	
Engle	97	46	70.0	0.20		Ogdensburg	88	38	55.2	3.49		Springhope <sup>1</sup>	95	42	67.1	3.10	
Espanola	95	38	66.1	1.23		Oneonta	83	30	56.4	4.96		Tarboro	106*	38	72.8	2.53	
Folsom	92	35	61.6	4.33		Oxford	87	38	57.6	3.05		Waynesville	87	39	61.2	2.60	
Fort Bayard	100	41	68.2	1.23		Palermo	87	31	58.9	3.60	T.	Weldon a	96	43	69.3	3.83	
Fort Union	92	35	62.3	4.92		Penn Yan	93	35	61.0	2.73		Weldon b	.....	.....	.....	3.84	
Fort Wingate	92	40	66.4	0.85		Perry City	89	30	57.0	2.42		<i>North Dakota.</i>	.....	.....	.....	.....	
Gage	.....	.....	.....	0.15		Phenix	.....	.....	.....	3.36		Amenia	87	21	55.6	1.71	
Gallisteo	100	37	67.6	2.09		Pine City	.....	.....	.....	2.96		Ashley	91	13	53.8	0.43	
Gallinosa Spring	95	40	66.0	1.72		Plattburg Barracks	84	.....	.....	5.71		Berlin	90	15	53.8	0.40	T.
Gila	102	46	73.8	1.17		Port Byron	84	37	59.6	2.00		Buxton	87	19	53.6	0.68	2.0
Hillaboro	91	48	68.2	0.00		Port Jervis	85	37	61.2	6.51		Churchs Ferry	91	17	54.3	0.26	
Las Vegas Hot Springs	91	36	61.9	3.08		Poughkeepsie	86	38	60.9	4.99		Coalharbor	96	24	57.6	0.37	
Lordsburg	.....	.....	.....	1.18		Primrose	86	35	61.9	5.70		Devils Lake	90	25	54.4	0.18	
Lower Penasco	90	45	67.5	2.90		Richmondville	.....	.....	.....	3.22		Dickinson	96	24	57.4	0.08	
Mesilla Park	101	36	68.8	0.77		Ridgeway	87	38	59.6	4.07		Donnybrook	80	.....	.....	0.70	
Monero	88	81	56.9	2.45		Rome	87	34	59.6	2.00		Ellendale	91	18	56.2	0.02	
Raton	92	38	61.9	4.17		Romulus	88	39	60.2	3.08		Fargo	92	17	55.2	1.24	
Rincon	102	46	72.4	0.92		Rose	.....	.....	.....	2.80		Forman	90	11	55.0	0.81	
Roswell	97	41	70.2	3.64		St. Johnsville	89	31	60.0	3.24		Fort Berthold	98	28	59.9	1.08	
San Marcial	97	42	70.2	0.40		Salisbury Mills	.....	.....	.....	6.00		Fort Yates	101	15	60.8	0.00	
Socorro	99	43	69.6	0.88		Saranac Lake	88	36	54.8	2.60	T.	Fullerton	90*	16	53.6	0.94	
Strauss	.....	.....	.....	1.79		Saratoga Springs	81	37	58.9	8.33		Gallatin	92	11	53.5	0.49	
Whiteoak	89	42	65.8	0.82		Schenectady	89	37	61.8	11.21		Glenullin	92	19	56.8	0.32	
Winsors Ranch	85	28	52.2	3.24		Schennevus	.....	.....	.....	3.85		Hamilton	88	18	58.0	0.98	0.5
<i>New York.</i>	.....	.....	.....	2.12		Scottsville	.....	.....	.....	2.89		Hannaford	92	19	54.7	0.45	T.
Adams	87	34	58.6	4.25	T.	Setsuket	83	45	63.8	5.02		Langdon	85	20	51.0	1.62	
Addison	.....	.....	.....	4.94	T.	Sherwood	.....	.....	.....	2.44		Larimore	90	19	53.7	0.22	
Akron	84	35	59.4	3.12	T.	Skaneateles	87	30	56.0	3.15	T.	Lisbon	91	19	55.1	1.38	T.
Alfred	86	30	58.1	2.86	T.	South Canisteo	87	30	56.0	7.10		McKinney	86	19	53.7	0.80	1.2
Angelica	86	38	58.1	2.65	T.	Southeast Reservoir	.....	.....	.....	7.10		Mayville	94	23	57.3	0.86	
Appleton	86	38	59.6	6.29	T.	South Kortright	84	32	56.9	2.18		Medora	99	22	59.4	0.31	
Arcade	85	38	57.2	5.10	0.5	Straits Corners	86	32	58.0	8.27	T.	Melville	92	20	58.5	0.20	T.
Atlanta	.....	.....	.....	2.54		Volusia	84	32	58.0	2.87	T.	Milton	89	20	51.0	1.62	
Auburn	89	38	61.1	4.12		Wappingers Falls	84	39	62.4	9.70		Minnewaukon	90	18	54.0	0.32	
Avon	91	34	59.0	2.85		Warwick	.....	.....	.....	7.18		Minot	90	27	53.9	0.80	
Baldwinsville	86	37	60.0	3.03		Watertown	86	31	58.2	3.08	T.	Minto	88	14	54.0	0.96	
Bedford a	83	33	60.6	5.03		Waverly	90	30	59.0	2.40		Napoleon	98	20	55.2	0.66	
Bedford b	.....	.....	.....	5.18		Wedgewood	89	35	58.8	3.48		Oakdale	88 <sup>a</sup>	30 <sup>b</sup>	56.4 <sup>c</sup>	0.52	
Bolivar	86	26	55.9	3.14		West Chazy	81	31	55.4	4.49		Pembina	87	18	52.8	0.90	
Bonckville	85	36	58.0	2.28		Westfield a	86	36	60.2	7.02		Power	89	14	54.8	0.72	
Boyd's Corners	.....	.....	.....	8.86		Westfield c	85	42	62.3	7.20		St. John	79	24	52.4	0.35	
Brentwood	80*	29	60.8	6.00		Westpoint	82	35	58.4	6.39		Sheyenne	86	18	54.2	0.56	
Caldwell	78	38	59.6	8.23		Willetsport	82	44	66.2	4.50		Towner	90	18	53.2	0.56	
Canajoharie	87	34	58.9	2.27		Williamson	.....	.....	.....	3.04	T.	University	86	23	54.9	1.76	
Canton	88	31	57.2	3.08		<i>North Carolina.</i>	97	30	67.8	6.27		Wahpeton	90	19	56.4	0.63	
Carmel	83	41	62.5	7.78		Ashers	.....	.....	.....	1.98		Willow City	89	18	54.4	0.63	
Carvers Falls	82	30	58.2	6.70		Asheville	.....	.....	.....	2.39		Woodbridge	89	15	51.4	0.61	
Catskill	83	38	61.8	6.46		Biltmore	92	34	65.0	1.75		<i>Ohio.</i>	93	32	63.5	3.55	
Charlotte <sup>10</sup>	86	39	59.4	.....		Bryson City	102	43	71.6	3.47		Ashland	96	30	63.9	3.13	
Chenango Forks	.....	.....	.....	1.60		Chapelhill	.....	.....	.....	0.49		Ashatabula	91	39	61.8	4.30	
Cherry Creek	.....	.....	.....	8.11	T.	Currituck	.....	.....	.....	3.20		Atwater	98	27	63.0	3.82	
Cooperstown	83	32	57.5	3.17		Durham	98	31	60.0	3.20		Bangorville	98	27	63.0	3.24	
Cortland	86	30	59.5	2.40		Experimental Farm	98	43	71.5	3.63		Bellefontaine	98	30	63.6	1.23	
Cutchogue	86	44	63.6	8.47		Fairbluff	.....	.....	.....	2.89		Bement	98	27	63.0	2.18	T.
Dekalb Junction	.....	.....	.....	3.68		Fayetteville	90	43	71.6	5.29		Benton Ridge	97	29	63.6	0.96	T.
Dryden	88	31	57.3	2.81		Flatrock	88	31	62.8	1.84		Bethany	103	30	67.6	1.04	
Easton	.....	.....	.....	5.88	T.	Goldsboro	96	44	70.7	8.91		Bigprairie	94	34	64.1	3.48	
Elmira	90	35	61.0	3.28		Greensboro	95	44	69.5	1.76		Blinola	98	37	61.4	3.87	T.
Fayetteville	.....	.....	.....	1.98		Henderson	101	43	69.7	4.49		Bloomingburg	96	32	65.8	2.45	
Fleming	88	40	60.4	1.87		Hendersonville	91	33	65.0	2.26		Bowling Green	98	29	62.6	2.01	
Fort Niagara	85	38	61.0	5.31		Horse Cove	89	33	64.9	1.17		Bucyrus	98	28	62.0	3.88	
Franklinville	89	29	56.6	3.84		Kinston	99	40	71.6	2.51		Cambridge	95	29	61.4	2.60	
Fulton	.....	.....	.....	8.83		Lenoir <sup>1</sup>	89	40	65.9	3.15		Camp Dennison	101	30	67.2	2.24	
Garrattsville	84	32	57.6	3.88		Rockville	90	30	57.4	4.41		Canal Dover	94	34	63.2	3.61	
Glen's Falls	81	38	59.8	7.10		Littleton	103	42	69.4	2.92		Canton	92	33	64.4	3.26	
Gloversville	84	29	57.8	3.26		Louisburg	99	41	69.6	7.86		Cedarville	98	34			

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion. Rain and melted snow.	Total depth of snow.	Stations.	Temperature. (Fahrenheit.)			Precipita- tion. Rain and melted snow.	Total depth of snow.	Stations.	Temperature. (Fahrenheit.)			Precipita- tion. Rain and melted snow.	Total depth of snow.
	Maximum.	Minimum.	Mean.				Maximum.	Minimum.	Mean.				Maximum.	Minimum.	Mean.		
Ohio—Cont'd.	o	o	o	In.	In.	Oklahoma—Cont'd.	o	o	o	In.	In.	Pennsylvania—Cont'd.	o	o	o	In.	In.
Granville.....	98	81	66.0	2.63		Stillwater.....	100	37	73.8	0.88		Dushore.....	o	o	o	2.80	T.
Gratiot.....	94	32	63.8	2.50		Waukomis.....	102	37	73.0	2.28		Dyberry.....	83	31	57.9	4.90	
Greenfield.....	98	36	67.3	0.60		Winnview.....	101	40	74.2	2.35		East Bloomsburg.....	86	34	61.8	3.62	
Greenvill.....	98	29	61.1	3.43	T.	Woodward.....	103	40	74.8	4.00		East Mauch Chunk.....	83	40	63.6	6.05	
Greenspring *	94	35	71.6	1.53		Oregon.						Easton.....	83	40	63.6	6.14	
Greenville.....	90	32	63.8	2.67		Albany b.....						Ellwood Junction.....				2.61	
Hanging Rock.....	102	31	68.4	3.61		Alpha.....	92	40	68.4	2.95		Emporium.....	86	35	59.2	4.89	T.
Hillhouse.....	94	32	60.7	5.58	T.	Arlington.....	91	45	66.8	0.49		Ephrata.....	92	38	65.9	7.26	
Hillsboro.....	99	30	65.3	2.60		Ashland b.....	96	36	64.6	0.32		Everett.....	90	33	61.4	4.70	
Hiram.....	92	33	62.0	3.40	T.	Aurora *1.....	88	48	63.2	1.80		Farrandsville.....				4.88	
Hudson.....	98	32	62.4	3.07		Aurora(near).....	95	41	60.1	2.15		Forks of Neshaminy *1.....	84 <sup>a</sup>	42 <sup>b</sup>	61.5 <sup>c</sup>	6.65	T.
Kenton.....	100	29	66.0	1.93		Bandon.....	68	46	56.0	1.71		Franklin.....	90	23	61.6	2.98	
Killbuck.....	95	36	64.1	3.28		Bay City.....	79	42	56.8	2.87		Frederick.....				5.61	
Lancaster.....	98	33	65.2	1.98		Blalock.....	97	49	70.5	0.25		Freeport.....				2.09	
Leipsic.....	94	26	60.9	1.50		Brownsville *1.....	90	45	60.6	1.25		Girardville.....				6.65	
Lordstown.....	96	32	61.2	3.87		Bullrun.....	82	44	59.9	2.77		Gramplian.....	82	32	58.8	3.00	T.
McArthur.....	101	32	61.2	3.47		Burns (near).....	91	28	60.4	0.00		Greensburg.....	91	35	64.1	8.30	
McConnellsburg.....	98	32	65.0	5.85		Cascade Locks.....	86	45	63.4	2.69		Hamburg.....	89	38	64.2	6.90	
Mansfield.....				4.55		Comstock *1.....	90	44	60.8	1.58		Hawley.....	84	31	58.4	3.86	
Marietta.....	94	38	66.5	4.76		Coquille.....						Hawthorn.....	89	29	61.0	3.76	T.
Marion.....	100	30	65.4	1.39		Corvallis.....	89	41	62.3	1.04		Hews Island Dam.....				2.27	
Medina.....	96	32	63.3	3.68	T.	Dayville.....	93	35	61.8	0.82		Huntingdon a.....	91	33	59.7	3.85	
Millerton.....	99	30	62.2	2.54		Ella.....						Huntingdon b.....				3.57	
Milligan.....	101	30	64.0	4.37		Eugene.....	88	43	61.6	1.39		Irwin.....				2.41	
Millport.....	91	38	61.6	3.49	T.	Fairview.....	88	43	62.8	2.08		Johnstown.....	92	35	68.4	8.45	
Montpelier.....	93	29	60.6	2.47	T.	Falls City.....	85	43	60.3	2.64		Keating.....				4.53	
Napoleon.....	98	26	60.0	3.60		Gardiner.....	80	47	60.2	2.81		Kennett Square.....	90	38	65.3	4.55	
Neapolis.....				3.90		Glenora.....	95	38	62.4	3.02		Lansdale.....				6.96	
New Alexandria.....	90	35	63.2	3.85		Government Camp.....	90	31	56.0	3.20		Lawrenceville.....	90	30	59.4	3.08	
New Berlin.....	97	32	63.6	3.26		Grants Pass.....	96	38	64.1	0.59		Lebanon.....	88	36	63.4	6.20	
New Holland.....	100	32	65.4	1.81		Happy Valley.....	89	23	58.1	0.05		Leroy.....	86	38	58.4	2.85	
New Paris.....	99	39	66.6	1.27		Heppner.....	94	39	63.2	1.66		Lewisburg.....	89	35	62.1	4.36	
New Richmond.....	103	30	68.5	1.50		Hood River (near).....	94	40	63.8	0.68		Lockhaven a.....	91	36	63.6	8.68	
New Waterford.....	89	34	61.7	4.09		Jacksonville.....	98	37	67.0	0.54		Lockhaven b.....				8.57	
North Lewisburg.....	98	32	64.0	2.10		Joseph.....	90	32	59.0	0.37		Lock No. 4.....				4.62	
North Royalton.....	97	39	62.6	3.69		Junction City *1.....	27	48	63.4	1.90		Lycippus.....	89	35	64.4	8.68	
Norwalk.....	98	30	60.9	1.83		Kerby.....	23	35	62.2	1.11		Mifflin.....				3.45	
Oberlin.....	98	30	62.6	2.57	T.	Klamath Falls.....	94	36	65.6	0.10		Nisbet.....				3.92	
Ohio State University.....	99	31	65.0	1.38		Lafayette *1.....	90	48	61.6	1.58		Oil City.....				4.47	
Orangeville.....	91	39	60.4	2.47	T.	Lagrange.....	93	35	62.2	0.48		Ottsville.....				5.18	
Ottawa.....	98	29	64.0	1.86		Lakeview.....	88	28	59.2	0.00		Parker.....				4.18	
Pataskala.....	97	30	64.6	2.43		Langlois.....	84	34	61.4	3.97		Philadelphia.....	89	45	67.2	8.94	
Philo.....	98	39	63.8	4.37		Lonerock.....	94	29	56.6	1.02		Quakertown.....	88	36	62.9	8.16	
Plattsburg.....	99	29	66.2	1.37		McMinnville <sup>1</sup> .....	85 <sup>a</sup>	40	61.0	2.56		Reading <sup>2</sup> .....				6.21	
Pomeroy.....	99 <sup>d</sup>	34	67.1	3.74		Merlin *1.....	101	44	65.4	0.61		Renovo a.....	89	35	61.2	4.61	T.
Portsmouth a.....				3.28		Monmouth a <sup>1</sup> .....	89	49	66.8	1.27		Ridgway.....				3.46	
Portsmouth b.....	101	35	67.8	3.28		Monroe.....	89	45	62.8	1.69		Saegerstown.....	91	27	60.6	5.25	
Pulse.....				2.25		Mount Angel.....	92	40	65.0	0.92		St. Marys.....	85	30	58.2	4.06	
Richwood.....	101	30	66.1	1.31		Nehalem.....						Salem Corners.....	84	34	60.1	4.48	
Ridgeville Corners.....	94	29	63.3	2.63		Newberg.....	92	41	62.1	2.05		Scranton.....	87	38	61.5	3.47	
Ripley.....	100	29	66.0	2.68		Newbridge.....	98	31	60.2	0.07		Seisholtzville.....				9.31	
Rittman.....	92	30	61.6	4.66		Newport.....	82	42	55.4	2.94		Selinsgrove a.....	87	36	62.2	4.72	
Rockyridge.....	98	29	63.8	2.90		Pendleton.....	100	40	66.2	1.84		Shawmont.....				4.12	
Rosewood.....	96	32	63.8	1.58		Placer.....						Singletonhouse.....	88			3.13	
Seaman.....	98	29	66.1	3.63		Prineville.....	93	31	61.2	1.11		Sinnamahoning.....				1.31	
Shenandoah.....	97	29	62.8	4.00		Riddles *1.....	96	50	64.8	0.66		Smiths Corners.....				7.73	
Sidney.....	103	33	65.5	1.26		Riverside.....						Somerset.....	92	30	58.3	7.18	
Sinking Spring.....	98	35	67.0	2.65		Salem b.....	86	40	61.9	1.35		South Eaton.....	86	34	60.6	2.16	
Somerset.....	97	35	67.3	2.80		Sheridan *1.....	94	43	63.5	1.52		State College.....	88	32	60.6	8.84	T.
Springboro.....				1.57		Silverton *1.....	88	50	63.2	1.89		Sunbury.....				4.95	
Strongsville.....				3.14		Siskiyou *1.....	93	50	62.7	0.50		Swarthmore.....	87	31	64.0	3.93	
Thurman.....	104	33	69.7	3.75		Sparta.....	79	38	61.5	2.70		Swiftwater.....				7.30	
Tiffin.....	95	32	63.0	1.58		Springfield *1.....	85	45	59.7	0.64		Towanda.....	88	32	59.5	2.03	
Upper Sandusky.....	96	30	64.4	1.30		Stafford.....	94	45	63.8	2.07		Towtrun.....				3.03	
Urbana.....	95	33	64.1	1.83		The Dalles.....	93	42	65.6	0.81		Uniontown.....				8.17	
Vanceburg.....	100	31	65.2	2.55		Tillamook Rock.....						Warren.....	84	33	60.6	7.19	
Vanwert.....	98	30	64.2	2.35		Toledo.....	91	40	59.4	2.40		Wellsboro.....	85	30	58.8	2.97	T.
Vermillion.....	95	32	62.3	2.33	T.	Ventura.....	91	32	60.6	0.15		Westchester.....	84	54	78.2	1.46	
Vickery.....	97	31	62.7	2.26		Weston.....	96	40	65.0	2.10		West Newton.....				3.88	
Walnut.....				2.26		Williams.....	93	35	62.6	1.79		Wilkesbarre.....	87	30	61.8	4.29	
Warren.....	98	33	62.0	3.44		Williams.....	93	35	62.0	0.70		Williamsport.....	88	32	61.8	2.04	
Warsaw.....	100	29	63.4	3.58		Brookville.....						York.....	89	35	68.4	6.07	
Wauseon.....	94	29	61.9	2.70		Brooks Lock.....						Rhode Island.					
Waverly.....	103	32	67.5	3.00		Butler.....	89	33	60.3	2.30		Kingston.....	82	36	60.4	7.26	
Waynesville.....	98	31	64.8	1.04		Carlisle.....						Lonsdale.....				8.97	
Wellington.....	96	31	63.7	2.35		Cassandra.....	88	37	59.3	3.70		Pawtucket.....	81	43	62.0	8.98	
Westerville.....				1.90		Cedarrun.....						Providence a.....	88	44	68.2	9.16	

TABLE II.—*Climatological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
	In.	In.	In.	In.	In.		In.	In.	In.	In.	In.		In.	In.	In.	In.	In.
<i>South Carolina—Cont'd.</i>	o	o	o	In.	In.	<i>Tennessee—Cont'd.</i>	o	o	o	In.	In.	<i>Texas—Cont'd</i>	o	o	o	In.	In.
Gillisonville	96	46	74.6	0.88		Florence	95	35	69.1	1.40		Laureles Ranch	97	57	77.9	4.10	
Greenville	95	43	69.4	2.30		Franklin	104	34	71.6	0.81		Llano <sup>5</sup>	97	57	77.9	2.06	
Greenwood	95	44	71.2	3.80		Grace <sup>4</sup>	100	46	68.4	0.80		Longview	105	41	76.4	0.43	
Holland	94	35	67.9	2.87		Greeneville	98	31	66.4	5.00		Luling	98	50	78.2	1.65	
Kingstree <sup>5</sup>	95	45	72.9	2.97		Harriman	98	36	69.2	1.28		Mann	98	48	76.2	2.02	
Kingstree <sup>6</sup>						Hohenwald	97	28	67.2	0.91		Marathon	94	44	67.8	8.48	
Little Mountain	99	45	73.0	3.81		Johnsonville	102	31	69.4	1.39		Monahans	98	40	71.7	1.41	
Longshore	97	42	71.8	3.08		Jonesboro <sup>4</sup>	91	39	65.1	3.90		Mount Blanco	97	48	76.5	1.17	
Pinopolis <sup>1</sup>	91	52	72.7	1.95		Kingston						Panter				1.57	
St. Georges	95	47	74.0	8.43		Lafayette <sup>6</sup>	95	38	68.6	0.88		Paris <sup>a</sup>	106	47	77.0	0.57	
St. Matthews	99	48	74.1	1.88		Lewisburg	100	34	70.6	0.64		Paris <sup>b</sup> <sup>1</sup>	103	54	78.9		
St. Stephens						Liberty	98	32	69.1	2.21		Point Isabel <sup>1</sup>	92	32	82.1	1.50	
Santuck	97	39	70.8	2.98		Lynnville	96	37	71.4	0.58		Rhineland	102	49	76.2	1.23	
Shaws Fork	99	38	73.6	2.13		McMinnville	95	33	68.0	0.85		Rock Island	98	51	77.6	2.78	
Smiths Mills						Madison	100	32	70.0	1.42		Rockport <sup>1</sup>	90	65	80.9		
Society Hill	95	43	72.0	2.78		Maryville <sup>5</sup>	101	37	70.6	1.61		Runge	100	52	79.8	0.51	
Spartanburg	97	40	69.9	3.54		Milan	102	35	73.2	0.48		Sabine	99	52	77.9	4.25	
Statesburg	95	48	73.7	2.24		Newport	98	34	68.2	3.83		San Antonio	93	54	79.8	0.31	
Summerville	93	48	73.0	3.12		Nunnelly	93	29	67.4	1.46		Sanderson				1.35	
Temperance	95	42	73.9	3.05		Oakhill	98	33	68.2	3.53		San Marcos	98	46	76.2	0.94	
Trenton	93	48	74.1	1.77		Palmetto	103	33	71.5	1.26		Sugarland	102	47	79.4	2.00	
Trial	94	42	69.9	2.54		Peycreek <sup>6</sup>	101	32	73.0	0.75		Sulphur Springs	101	48	76.2	1.14	
Walhalla	98	31	67.5	1.05		Pope	105	38	69.8	2.25		Temple <sup>a</sup>	99	54	77.4	0.70	
Winnboro	91	47	69.8	2.24		Rogersville	95	33	66.5	2.45		Temple <sup>b</sup>	100	50	75.5	0.65	
Yemassee	98	48	73.8	1.19		Rugby	95	29	65.4	0.62		Tyler	98	47	76.2	0.00	
Yorkville	102	46	73.2	4.35		Savannah	101	33	70.7	2.68		Valentine	94			T.	
<i>South Dakota</i>						Sewanee	98	34	68.4	0.28		Waco	99	50	77.2	1.10	
Aberdeen	92	18	58.1	1.00		Silver Lake	85	32	60.7	3.74		Waxahachie	102	44	75.8	1.25	
Alexandria	92	15	60.1	T.		Springdale	104	29	69.6	2.86		Weatherford	99	49	76.2	2.70	
Armour	90	17	61.6	0.06		Springfield	101	30	69.3	0.60		Wichita Falls				1.51	
Ashcroft	100	22	60.1	0.43		Sylvia	99	31	70.4	1.03		<i>Utah</i>					
Bowdle	95	15	55.0	0.85		Tazewell						Bluecreek <sup>2</sup>	90	45	64.2	T.	
Brookings	92	12	56.7	0.17		Tellico Plains	98	31	69.6	1.78		Brigham					
Canton	95	15	58.3	0.00		Tracy City	90	30	64.8	0.72		Castledale	90	40	65.8	0.25	
Centerville						Trenton	103	30	71.8	0.47		Cisco	97	48	68.4	0.01	
Chamberlain	98	33	69.9	0.12		Tullahoma	97	27	68.0	0.75		Corinne	97	39	62.2	0.00	
Chandler	98	17	64.2	0.14		Union City	99	33	69.6	1.00		Croydon	90	27	54.4	0.70	
Clark						Waynesboro	98	29	68.5	0.40		Deseret	97	33	64.1	T.	
Desmet	87	16	56.0	0.32		Wildersville	95	34	69.5	0.88		Fillmore <sup>4</sup>	98	38	67.3	0.00	
Doland	90	11	57.4	0.62		Yukon	98	38	71.0	0.32		Fort Duchesne	94	34	63.1	0.00	
Elkpoint	99	33	61.4	0.20		<i>Texas</i>						Frisco	99	43	68.2	T.	
Farmingdale						Alvin						Giles	99	37	68.2	0.18	
Flandreau	95	15	59.9	0.31		Anna	105	42	76.6	1.24		Grover	83	31	58.8	0.24	
Forestburg	97	16	58.4	T.		Arthur						Heber	86	28	57.0	0.15	
Forest City	104	23	58.8	0.50		Austin <sup>a</sup>	98	48	76.0	1.60		Huntsville					
Fort Meade	100	29	63.0	1.10		Austin <sup>b</sup>	98	48	77.1			Keilton <sup>1</sup>	90	45	65.2	0.00	
Gann Valley	95	21	60.8	T.		Ballinger	97	48	74.4	0.31		Levan					
Goudyville	95	15	57.4	1.60		Beaumont	96	50	77.2	1.32		Loa	89	36	61.9	0.00	
Highmore	91	33	62.8	0.48		Beeville	102	49	78.5	2.75		Logan	89	39	56.8	0.00	
Hitchcock						Blanco <sup>6</sup>	100	54	80.1	2.35		Manti	89	40	65.0	0.02	
Hotch City						Boerne <sup>4</sup>	95	53	75.6	2.97		Marysville				T.	
Hot Springs	96	26	59.2	0.50		Brazoria	93	51	76.0	2.23		Minerville				0.00	
Howard	90	13	58.1	0.10		Brenham	99	52	78.0	0.66		Moab	99	40	69.4	0.08	
Interior	102	38	68.2	0.50		Brighton						Mount Pleasant	99	35	65.9	0.00	
Ipswich	90	15	56.6	1.21		Brownwood						Ogden <sup>a</sup>	88	50	70.0	0.00	
Kimball	98	28	63.4	0.24		Burnett <sup>1</sup>	94	50	75.6	1.18		Pahreh <sup>4</sup>	97	40	69.5	T.	
Leola	85	17 <sup>b</sup>	51.8	0.04		Camp Eagle Pass	44					Parowan	93	37	65.7	0.08	
Leslie	108	28	63.1	0.80		Coleman	100	54	76.0	0.42		Pinto	87	29	59.4	0.00	
Mellette	91	16	58.8	1.26		College Station	96	52	75.8	0.00		Promontory				0.08	
Menno	98	16	60.8	0.12		Colorado						Provo	96	41	66.3	0.00	
Millbank	88	15	57.2	0.42		Columbia	92	49	75.2	2.37		Richfield	92	31	61.6	0.07	
Mitchell	96	11	50.2	0.03		Conroe	95	50	76.8	0.78		St. George	103	40	72.5	0.00	
Montrose	92	21	60.4	0.07		Corsicana	102	50	77.0	0.70		Scipio	92	29	62.4	0.00	
Parker	92	17	59.1	T.		Cuero	99	51	78.9	3.14		Snowville					
Plankinton	94	16	59.6	0.10		Dallas	102	44	75.2	1.88		Soldier Summit	80	35	53.6	0.00	
Redfield	91	16	57.4	1.27		Danevang	98	48	77.8	3.77		Terrace				T.	
St. Lawrence	97	12	59.0	0.25		Dublin	103	51	75.5	1.48		Tooele					
Shiloh	105	24	54.8	0.85		Duval	88	55	78.0	0.82		Tropic	86	33	60.0	T.	
Silver City						Emory	103	44	77.0	0.58		Vernal	86	33	60.0	T.	
Sioux Falls	94	18	57.8	0.21		Estelle	103	49	76.9	2.45		Woodruff	83	22	53.8	0.00	
Spearfish	97	34	62.6	2.05		Gainesville	103	46	76.0	2.40		Vermont					
Tyndall	90	21	62.4	T.		Georgetown <sup>5</sup>	100	50	77.6	2.22		Bennington	88	34	60.6	5.60	
Watertown	86	9	53.0	0.45		Grapevine	102	50	76.8	1.29		Brattleboro	88	32	59.8	3.47	
Wanbay	86	17	56.0	1.69		Hale Center	97	49	72.6	1.35		Burlington	79	39	60.5	6.98	
Wentworth	89	18	57.0	0.19		Hallettsville	95	48	77.3	4.33		Cornwall	79	38	54.2	3.94	
Wessington Springs <sup>1</sup>	91	18	56.0	0.15		Hearne	98	49	77.4	0.00		Derby	88	39	55.4	6.29	
Wolsey						Henrietta	103	46	76.5	1.80		Enosburg Falls	88	26	55.0	3.83	
<i>Tennessee.</i>						Hewitt						Hartland	79	31	55.0	4.11	
Andersonville	9																

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Virginia—Cont'd.</i>																	
Burke's Garden	87	80	59.4	4.68	In.	In.	Burlington	95	92	64.0	4.41		Waupaca	99	18	56.7	2.54
Callaway	99	89	67.0	3.26			Cairo	89	81	58.0	3.75		Wausau	94	18	53.4	2.28
Christiansburg							Charleston						Westbend	90 <sup>a</sup>	25 <sup>b</sup>	61.0 <sup>c</sup>	3.18
Cliftonforge	90	86	63.2	0.31			Dayton	96	81	63.2	3.37		Westfield	89	20	57.7	3.18
Columbia							Eastbank	98	82	66.2	2.43		Whitehall	85	19	57.2	2.94
Dale Enterprise	100	91	63.4	4.40			Elkhorn	94	83	64.7	1.72						
Doswell	98	87	67.5	4.50			Fairmont										
Dwale							Glenville	93	87	63.9	4.25						
Farmville	100	40	69.1	2.98			Grafton	93	84	63.1	4.74						
Fontella	100	39	69.3	5.04			Green Sulphur	95	28	64.9	3.62						
Fredericksburg	95	40	67.6	5.36			Hamlin	98	93	67.4	4.54						
Hampton	95	50	72.0	0.38			Harpers Ferry										
Hot Springs	59	22	59.2	4.64			Hinton a										
Lexington	95	36	65.1	4.01			Hinton b	97	86	67.8							
Manassas	94	41	66.6	4.60			Huntington	99	81	66.4	3.05						
Marion	96	31	64.3	4.02			Kingwood	92	32	62.7	5.98						
Miller School	38			8.76			Lanes Bottom										
Newport News	95	54	73.8	0.63			Madison	86 <sup>a</sup>	34	63.2 <sup>b</sup>	3.41 <sup>b</sup>						
Petersburg	99	42	69.2	4.09			Marlinton	87	82	60.4	4.01						
Quantico	96	41	64.0				Martinsburg	94	37	64.6	3.48						
Radford				3.29			Morgantown	96	34	65.2	2.38						
Richmond (near)	96	42	67.4	5.35			New Cumberland	98	37	66.9	3.76						
Rockymount	96	32	67.6	4.85			New Martinsville	98	36	65.8	6.35						
Salem	95	42	63.4	4.44			Nuttallburg	94	35	65.0	2.48						
Scottsburg				7.16			Oceana	97	88	65.2	2.41						
Speers Ferry				4.47			Oldfields	93	82	62.2	3.64						
Spottsville	100	37	68.2	1.45			Parsons	89	33	61.8	3.95						
Standardsville	96	38	65.0	5.17			Philipps b	96	34	64.8	4.28						
Staunton	98	34	66.4	3.59			Point Pleasant	100	36	68.8	3.45						
Stephens City	96	27	66.0	8.53			Powellton	93	36	65.1	2.70						
Sunbeam	98	27	68.6	1.38			Romney	93	36	64.5	3.61						
Tobaccoville *	100	38	67.2	4.30			Rowlesburg										
Warrenton	90	44	67.2	5.22			Terra Alta.										
Warsaw	98	40	68.8	4.36			Upper tract	96	31	64.7	4.68						
Westbrook Farm	95	45	68.0				Weston a										
Westpoint				2.66			Weston b	95	35	65.7							
Woodstock	97	85	65.0	3.12			Wheeling a										
Wytheville	95	38	64.8	3.85			Wheeling b	96	40	67.5	2.74						
<i>Washington.</i>							<i>Wisconsin.</i>										
Aberdeen	84	43	60.5	2.32			Amherst	83	15	55.8	0.68						
Ashford				2.42			Antigo	86	13	52.6	2.71						
Bremerton	88	43	60.8	1.00			Barron	84	14	55.0	0.65						
Bridgeport	94	38	65.6				Bayfield	88	28	56.4	3.10						
Brinnon	74	45	58.4	1.26			Beloit	93	23	61.0	3.20						
Cedar Lake				2.63			Brodhead	97	20	61.1	3.34						
Cedonia	82	32	55.5	1.75			Butternut	84	15	52.0	3.13						
Centererville	98	29	60.8	0.75			Chilton	93	25	56.8	2.85						
Chehalis	87	40	62.0	2.01			Citypoint	87	25	58.0	2.68						
Cheney				0.13			Delavan	93	32	64.7	2.75						
Clearwater	80	37	68.4	2.94			Dodgeville	94	18	59.6	1.44						
Cle Elum	91	27	57.0	0.97			Easton	90	14	57.0	2.02						
Colville	90	37	63.8	2.47			Eau Claire	83	23	58.0	3.28						
Connell				0.19			Fond du Lac	80	22	58.1	2.69						
Crescent	92			1.10			Grand River Locks										
Dayton	92	39	62.2	1.08			Grantsburg	83	16	55.6	1.63						
Ellensburg	84	33	58.0	0.40			Hartford	93	27	58.8	2.99						
Ellensburg (near)	94	36	61.8	0.65			Hartland	92	24	59.8	3.60						
Fort Simcoe	93	39	65.1	0.34			Harvey	95	24	59.2	3.49						
Grandmound	86	40	61.2	1.94			Hayward	80	16	53.4	2.61						
Hooper	98	36	65.0	1.11			Heafford										
Kennewick	94	38	67.6	0.44			Hillsboro	91	16	59.2	1.92						
Lacenter	90	40	61.1	2.32			Knapp	87	17	54.9	3.42						
Lakeside	85	44	65.6	0.19			Koepenick *1	82	30	57.9	2.10						
Lind	99 <sup>a</sup>	35	65.3	0.44			Lancaster	92	20	58.0	0.98						
Mayfield	85	40	61.6	2.39			Lincoln	91	29	57.8	2.63						
Monte Cristo	84	34	59.2	3.40			Madison	88	29	59.8	3.35						
Moxee Valley	97	34	63.0	0.54			Manitowoc	93	26	57.8	2.35						
New Whatcom	82	36	57.6	0.72			Meadow Valley	88	14	56.4	2.81						
Northport	84	30	56.0	1.99			Medford	87	11	58.0	2.80						
Olga	77	39	55.6	1.02			Menasha										
Olympia	84	41	60.2	1.97			Neillsville	84	14	55.6	1.05						
Orcas Island	76	39	58.6				New Holstein	91	23	56.0	4.00						
Pinehill	93	41	63.5	0.89			New London	91	19	56.4	2.31						
Pomeroy				1.32			Oconto	91	23	56.8	1.14						
Port Townsend	76	44	58.6	0.81			Osceola	85	20	56.0	1.08						
Pullman	91	38	61.8	1.51			Oshkosh	87	31	58.0	2.02						
Ritzville				0.29			Pepin	89	22	57.9	2.32						
Rosalia	89	33	60.2	1.55			Pine River	89	19	56.6	2.60						
Sedro	82	36	61.4	0.96			Portage	89	23	57.7	2.85						
Silvana	76	39	57.0	0.81			Port Washington	95	27	58.4	2.75						
Snohomish	77	42	59.2	1.25			Prairie du Chien	95	22	63.3	1.56						
Snoqualmie	80	48	63.3	2.39			Prentice *1	82	20	50.0	3.47						
Southbend	90	40	61.2	2.91			Racine	96	28	62.2	4.25						
Sunnyside	93	42	64.7	0.80			Sharon	97	23	50.8	2.10						
Twin	88	41	59.4	1.23			Shawano	86	21	54.6	1.60						
Union	78	41	59.2	1.80			Sheboygan	92	28	50.6	2.71						
Usk	84	32	58.6				Spooner	88	19	50.1							
Vancouver	83	42	61.0	1.83			Stevens Point	84	13	55.8	1.90						
Waterville	90	28	60.3	0.85			Sturgeon Bay Canal *10	90	28	56.8							
Wenatchee (near)	98	39	63.9	0.23			Two Rivers *10	86	28	56.5							
<i>West Virginia.</i>							Valley Junction	86	14	57.0	1.60						
Beckley *	89	29	62.4	1.73			Viroqua	89	21	59.2	1.40						
Beverly																	

TABLE II.—*Climatological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>North Carolina.</i>											
Abbeville .....	90°	57°	78.5°	Ins.	Ins.	Mexico.	90°	75°	85.2°	Ins.	Ins.
Oregon.	97	57	78.5	2.17		Topolobampo* <sup>1</sup> .....	93	75	85.2	2.94	—
Happy Valley .....	85	28	56.6	1.06							
<i>South Carolina.</i>											
Gillisonville .....	100	64	81.4	8.79							
Walhalla .....	95	62	77.6	2.90							
Texas.											
College Station .....	97	68	84.2	0.01							
Gainesville .....	107	68	88.0	0.00							
Wichita Falls .....				0.00							
Washington.											
Sedro .....	86°	42°	68.0°	5.17							

## EXPLANATION OF SIGNS.

\* Extremes of temperature from observed readings of dry thermometer.

A numeral following the name of a station indicates the hours of observation from which the mean temperature was obtained, thus:

<sup>1</sup> Mean of 7 a. m. + 2 p. m. + 9 p. m. + 9 p. m. + 4.

<sup>2</sup> Mean of 8 a. m. + 8 p. m. + 2.

<sup>3</sup> Mean of 7 a. m. + 7 p. m. + 2.

<sup>4</sup> Mean of 8 a. m. + 6 p. m. + 2.

<sup>5</sup> Mean of 7 a. m. + 2 p. m. + 2.

<sup>6</sup> Mean of readings at various hours reduced to true daily mean by special tables.

<sup>7</sup> Mean from hourly readings of thermograph.

<sup>8</sup> Mean of sunrise and noon.

<sup>9</sup> Mean of sunrise, noon, sunset, and midnight.

The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers.

An italic letter following the name of a station, as "Livingston *a*," "Livingston *b*," indicates that two or more observers, as the case may be, are reporting from the same station. A small roman letter following the name of a station, or in figure columns, indicates the number of days missing from the record; for instance, "*a*" denotes 14 days missing.

## CORRECTION.

Table I, Salt Lake City, Utah, from March to August, 1899, inclusive, the elevation of the instruments should have read as follows: Barometer above sea level, 4,380 feet; thermometers and anemometer above ground, 105 and 110 feet, respectively.

TABLE III.—*Mean temperature for each hour of seventy-fifth meridian time, September, 1899.*

Stations.	1 s.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 s.m.	11 s.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Midn't.	Mean.	
Bismarck, N. Dak.	51.5	50.2	48.9	48.0	47.2	46.8	45.4	46.0	49.0	58.1	57.6	61.9	64.7	67.0	69.0	70.4	70.2	68.5	65.3	60.4	57.6	55.0	52.8	57.4		
Boston, Mass.	58.5	58.1	57.7	57.2	58.5	56.5	57.5	60.3	62.1	68.8	65.5	66.5	67.6	68.5	67.7	65.6	64.0	62.7	61.7	60.9	60.2	59.8	58.4	61.8		
Buffalo, N. Y.	58.4	57.8	57.3	57.0	58.5	58.1	56.4	57.4	59.1	60.7	61.9	63.0	68.6	64.1	65.1	65.3	64.7	68.8	61.7	60.8	59.7	59.2	58.6	57.8	60.2	
Cedar City, Utah	68.4	63.7	62.3	61.6	61.0	60.3	59.6	59.0	58.3	62.3	66.3	70.4	73.7	76.5	78.4	79.6	79.8	79.3	78.5	76.9	72.1	69.8	67.9	68.7		
Chicago, Ill.	61.5	60.7	60.0	59.7	59.1	58.4	58.1	59.0	60.0	60.9	62.1	68.5	64.3	65.2	65.8	65.1	65.6	64.7	64.3	63.4	62.7	61.7	61.3	62.2		
Cincinnati, Ohio	64.4	63.2	62.5	61.8	60.6	59.7	58.3	60.9	63.4	66.7	68.7	71.7	73.5	75.1	76.1	76.8	76.7	75.0	73.1	71.5	68.8	67.3	65.8	64.0	67.2	
Cleveland, Ohio	60.8	60.0	59.3	58.6	57.8	57.4	56.5	58.1	60.3	62.7	64.0	64.4	64.6	65.1	65.6	65.4	65.4	64.8	68.7	64.2	61.7	60.8	59.3	61.9	61.9	
Detroit, Mich.	57.2	56.5	55.9	55.7	55.0	54.6	54.9	55.8	56.9	59.1	60.9	62.7	64.0	65.2	65.6	65.9	66.0	65.6	68.6	61.5	59.8	58.2	57.1	59.8	59.8	
Dodge, Kans.	63.6	62.7	61.5	60.2	59.2	58.6	58.3	57.7	60.3	65.6	70.3	74.0	76.7	78.5	80.2	81.3	81.7	80.9	79.9	74.2	70.7	68.6	66.1	64.7	69.0	
Eastport, Me.	51.7	51.4	51.0	50.8	50.4	50.5	51.4	52.9	55.2	56.8	57.7	58.9	59.3	59.1	59.1	58.6	57.2	55.3	54.5	54.0	53.1	52.8	52.9	51.7	54.4	
Galveston, Tex.	78.0	77.6	77.3	77.0	76.6	76.2	76.0	76.3	76.8	78.4	80.4	81.5	82.5	83.2	85.5	88.2	82.5	81.5	81.5	79.7	79.3	78.9	78.6	79.5	79.5	
Havre, Mont.	54.2	53.2	51.5	49.8	48.6	47.2	46.4	45.1	45.8	49.7	51.7	53.8	68.4	66.5	66.1	70.8	71.5	72.3	71.8	68.3	65.1	61.1	57.7	56.2	58.8	
Independence, Cal.	74.5	72.2	70.5	69.4	68.3	66.9	65.7	61.4	62.8	65.4	68.9	73.6	76.0	81.5	84.4	86.5	87.8	87.9	87.6	86.9	82.0	79.7	77.8	76.1	75.7	
Kalispell, Mont.	51.8	50.0	48.8	47.7	46.8	45.9	45.0	44.8	43.7	46.9	51.3	55.2	58.9	61.3	62.2	64.5	65.4	65.3	65.5	64.2	60.9	56.8	54.2	53.5	54.6	
Kansas City, Mo.	64.6	63.7	62.9	61.8	61.0	59.9	59.2	59.7	62.4	66.2	69.4	72.4	74.5	76.0	77.1	77.9	78.0	77.0	75.5	73.3	69.6	67.8	66.5	65.2	68.4	
Key West, Fla.	81.7	81.3	81.2	81.0	80.9	80.3	81.0	82.7	83.5	84.2	85.1	84.8	85.1	85.7	85.5	85.7	85.1	83.7	82.5	82.6	81.9	81.5	81.1	81.4	82.8	
Marquette, Mich.	50.9	50.6	50.6	50.6	50.2	49.7	49.2	51.1	52.6	53.9	55.6	55.8	56.5	56.5	56.2	55.8	55.6	54.4	53.5	53.4	50.8	50.2	50.1	50.0	52.6	
Memphis, Tenn.	69.6	68.3	67.1	66.3	65.1	64.3	63.7	65.2	69.0	71.8	74.7	76.6	78.3	79.5	80.8	81.1	80.5	79.4	77.3	75.9	73.9	72.8	71.5	69.9	73.6	
Mt. Tamalpais, Cal.	71.6	70.9	70.7	70.5	70.2	70.3	70.1	70.2	69.5	69.7	70.4	71.9	73.2	74.9	76.2	77.2	77.9	77.3	76.1	74.7	73.5	71.6	70.9	71.1	72.5	
New Orleans, La.	74.8	73.2	72.7	72.2	71.8	71.4	71.2	72.4	74.8	77.0	79.1	81.4	81.8	82.9	83.8	84.2	81.5	80.1	78.3	77.0	75.8	75.0	74.2	77.0	77.0	
New York, N. Y.	62.5	61.8	61.3	60.8	60.4	60.1	61.1	62.5	64.5	65.8	67.6	69.3	70.0	70.4	70.7	70.5	69.6	67.8	66.8	66.1	65.2	64.5	63.8	62.4	65.2	
Philadelphia, Pa.	62.6	62.0	61.5	60.7	60.2	59.9	60.8	63.0	65.2	67.8	70.0	71.6	73.0	74.0	74.4	73.7	73.1	70.7	68.6	67.3	65.3	64.8	63.3	62.7	66.5	
Pittsburg, Pa.	63.0	62.6	59.4	58.8	58.3	58.8	58.3	59.5	59.6	62.4	65.0	68.0	69.8	71.9	72.2	72.8	72.8	72.6	68.5	67.2	65.2	64.7	63.1	65.1	65.1	
Portland, Oreg.	63.0	62.0	60.5	58.9	57.7	57.1	56.4	55.7	54.7	54.7	56.2	58.1	61.3	63.6	65.6	67.7	70.1	71.8	72.9	72.5	71.3	69.0	66.5	64.8	63.0	
St. Louis, Mo.	66.8	65.8	64.8	63.7	62.8	62.1	61.5	62.7	64.9	68.2	71.4	74.0	75.8	77.1	77.6	78.3	78.1	77.1	76.2	73.1	71.3	69.8	68.2	66.9	69.9	
St. Paul, Minn.	55.7	54.7	53.8	53.0	52.3	51.5	50.9	51.1	52.0	55.0	57.8	60.5	62.9	64.3	65.9	67.9	66.7	66.2	65.5	65.1	60.7	58.8	57.4	55.9	58.4	
Salt Lake City, Utah	62.9	62.0	60.6	59.5	59.0	58.4	58.3	58.4	58.6	58.9	60.4	62.9	65.2	67.1	69.6	70.4	70.7	69.6	67.8	66.8	66.1	65.2	64.5	63.8	65.2	
San Diego, Cal.	63.8	63.3	62.8	62.5	62.1	61.8	61.5	61.0	60.9	61.0	62.1	64.2	65.9	67.0	68.2	69.3	67.9	65.5	64.8	64.3	64.7	64.5	63.8	64.4	65.2	
San Francisco, Cal.	53.8	53.4	53.1	52.9	52.5	52.1	51.6	52.3	51.9	52.4	53.6	55.6	57.9	60.8	62.3	63.6	62.6	62.8	60.9	58.8	57.1	55.8	55.0	54.4	56.1	
Santa Fe, N. Mex.	60.4	59.5	58.1	57.1	56.1	54.8	53.9	52.9	56.6	60.8	63.8	66.0	68.0	71.1	72.6	73.2	71.5	68.8	64.4	63.2	62.0	60.9	63.2	62.0	63.2	
Savannah, Ga.	72.5	71.8	70.9	70.1	69.8	69.1	69.4	71.4	73.1	77.9	80.4	81.9	82.9	83.8	83.2	82.1	79.6	77.1	76.1	74.8	74.1	73.8	73.7	75.9	75.9	
Washington, D. C. <i>West Indies</i>	61.8	60.5	59.6	59.0	58.1	57.5	58.3	58.3	62.2	65.8	68.4	71.0	72.5	73.8	74.3	74.9	75.2	74.3	69.0	66.5	65.0	63.8	62.8	61.6	62.2	
Basseterre, St. Kitts	79.0	78.9	78.4	78.2	78.7	79.8	81.6	82.2	82.9	83.8	83.9	84.7	84.1	83.4	82.8	82.8	81.8	80.5	79.9	80.0	80.1	79.7	79.8	79.3	80.0	
Bridgetown, Bar.	77.1	77.0	77.0	76.9	76.5	76.8	78.2	78.5	84.4	84.6	85.3	85.2	85.1	84.7	83.7	82.4	81.4	80.2	79.1	78.2	78.2	78.0	77.5	79.7	80.7	
Cienfuegos, Cuba	74.9	74.5	74.1	73.8	73.5	73.5	75.1	78.6	82.0	83.9	85.7	87.0	87.6	87.2	88.2	88.4	81.5	80.3	78.5	77.9	76.8	76.5	75.8	79.8	79.8	
Havana, Cuba	78.2	77.1	76.5	75.7	75.5	75.6	76.8	79.2	83.8	84.9	85.3	85.7	85.0	84.6	84.6	83.9	83.5	82.9	82.5	82.0	81.8	80.7	80.6	79.5	78.8	
Kingston, Jamaica	75.1	74.8	74.5	74.4	74.0	73.9	76.0	79.9	83.7	85.9	87.0	86.9	86.1	84.1	82.4	82.4	81.2	80.8	80.7	78.7	76.6	76.0	75.7	75.7	79.3	
Port of Spain, Trin.	74.6	74.2	74.1	74.0	73.8	74.9	78.8	82.1	84.6	85.5	85.9	85.8	86.0	85.6	85.6	84.9	84.6	83.8	82.5	80.1	79.5	78.0	77.3	76.7	76.6	
P. Principe, Cuba	73.9	73.5	72.9	72.3	71.9	71.8	74.3	78.6	81.7	84.6	85.7	86.0	85.5	85.6	85.6	85.2	85.0	84.5	83.7	82.0	81.7	80.6	79.5	78.8	79.4	
San Juan, P. R.	77.1	76.8	76.8	76.5	76.3	76.9	78.8	80.4	83.3	84.3	84.4	85.5	88.4	88.1	88.2	88.2	88.1	87.9	87.7	86.4	86.4	85.7	85.5	85.5	87.9	
Santiago de Cuba	76.5	75.9	75.5	75.0	74.6	74.6	77.1	79.9	81.8	85.5	88.4	89.1	89.2	89.0	87.7	86.2	88.5	81.9	80.8	79.8	78.6	78.2	77.6	76.9	81.1	
Santo Domingo, S. D.	Willemstad, Curaçao	80.5	80.1	79.9	80.0	79.8	79.7	81.7	88.3	84.3	84.9	85.8	85.6	86.6	87.1	86.8	85.9	84.3	82.9	88.1	81.8	81.4	81.3	80.9	80.7	82.8

TABLE IV.—*Mean pressure for each hour of seventy-fifth meridian time, September, 1899.*

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midn't.	Mean.	
Bismarck, N. Dak.	28.284	.288	.290	.292	.297	.304	.318	.319	.324	.323	.313	.299	.265	.241	.237	.238	.250	.262	.270	.271	.281	.290	.270	.281	.281	
Boston, Mass.	29.912	.906	.905	.908	.913	.925	.929	.926	.940	.933	.923	.911	.901	.894	.889	.894	.896	.907	.914	.917	.916	.916	.916	.916	.916	.912
Buffalo, N. Y.	29.190	.187	.187	.198	.195	.206	.212	.216	.222	.223	.220	.214	.203	.194	.187	.180	.181	.186	.190	.184	.198	.199	.202	.203	.198	.199
Cedar City, Utah	24.369	.370	.372	.373	.373	.373	.373	.380	.381	.402	.408	.412	.411	.403	.388	.371	.357	.348	.342	.387	.341	.350	.383	.365	.374	.374
Chicago, Ill.	23.175	.174	.172	.172	.176	.183	.190	.207	.213	.215	.213	.208	.199	.188	.178	.171	.169	.169	.172	.174	.186	.186	.189	.186	.186	.186
Cincinnati, Ohio	29.398	.896	.931	.932	.941	.940	.424	.429	.437	.439	.434	.422	.405	.391	.374	.370	.371	.373	.377	.396	.401	.407	.407	.401	.401	.401
Cleveland, Ohio	29.208	.206	.207	.208	.218	.222	.231	.238	.243	.245	.249	.236	.226	.217	.209	.205	.204	.205	.208	.214	.223	.223	.223	.221	.221	.220
Detroit, Mich.	29.246	.245	.242	.239	.242	.247	.259	.270	.278	.288	.281	.273	.264	.253	.244	.237	.233	.234	.238	.246	.254	.257	.259	.262	.263	.253
Dodge, Kans.	27.488	.484	.485	.484	.484	.485	.486	.489	.497	.503	.505	.498	.486	.469	.449	.429	.418	.414	.414	.424	.441	.459	.471	.479	.468	.468
Eastport, Me.	29.950	.944	.913	.945	.953	.959	.968	.973	.974	.974	.969	.964	.957	.949	.943	.941	.939	.944	.951	.956	.957	.955	.954	.955	.955	.955
Galveston, Tex.	29.960	.957	.956	.958	.954	.951	.973	.986	.997	.006	.011	.006	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005
Havre, Mont.	27.401	.402	.404	.409	.410	.412	.415	.420	.427	.430	.430	.426	.424	.418	.402	.393	.385	.379	.382	.381	.388	.397	.401	.401	.405	.405
Independence, Cal.	26.018	.017	.024	.028	.031	.036	.039	.048	.062	.069	.076	.078	.077	.068	.041	.020	.000	.004	.004	.005	.005	.005	.005	.005	.005	.005
Kalispell, Mont.	27.015	.017	.019	.019	.020	.023	.028	.032	.033	.046	.055	.058	.062	.056	.045	.038	.025	.015	.007	.008	.005	.007	.002	.011	.017	.025
Kansas City, Mo.	29.068	.066	.066	.065	.071	.080	.088	.101	.112	.121	.120	.109	.096	.076	.058	.040	.031	.025	.027	.029	.046	.056	.064	.066	.070	.070
Key West, Fla.	29.947	.987	.930	.927	.930	.938	.952	.958	.973	.979	.977	.968	.952	.938	.915	.908	.908	.910	.915	.928	.945	.958	.955	.953	.941	.941
Marquette, Mich.	29.224	.223	.220	.216	.220	.227	.227	.237	.239	.240	.236	.233	.227	.229	.229	.229	.229	.232	.232	.235	.239	.240	.239	.239	.239	.239
Memphis, Tenn.	29.645	.646	.648	.650	.657	.667	.681	.688	.704	.710	.710	.704	.685	.666	.643	.632	.621	.619	.621	.627	.640	.648	.654	.654	.659	.659
Mt. Tamalpais, Cal.	27.577	.577	.573	.572	.567	.562	.561	.563	.579	.591	.601	.612	.616	.614	.610	.608	.592	.580	.572	.567	.563	.567	.567	.567	.567	.567
New Orleans, La.	29.975	.977	.989	.988	.972	.958	.994	.001	.015	.021	.018	.004	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
New York, N. Y.	29.734	.720	.715	.715	.722	.730	.736	.743	.744	.742	.738	.726	.714	.706	.696	.696	.699	.698	.709	.720	.727	.731	.731	.721	.721	.721
Philadelphia, Pa.	29.988	.985	.984	.986	.942	.950	.961	.964	.968	.966	.958	.949	.935	.922	.912	.910	.913	.916	.926	.941	.945	.946	.947	.947	.948	.948
Pittsburg, Pa.	29.149	.145	.142	.142	.145	.153	.166	.171	.176	.178	.173	.165	.155	.143	.134	.127	.126	.130	.137	.145	.156	.158	.159	.160	.154	.154
Portland, Oreg.	29.903	.908	.915	.920	.921	.920	.923	.924	.928	.943	.946	.946	.941	.931	.921	.909	.896	.887	.881	.878	.880	.890	.889	.914	.914	
St. Louis, Mo.	29.463	.454	.454	.456	.462	.464	.481	.481	.498	.502	.505	.495	.484	.465	.448	.436	.438	.428	.429	.436	.448	.453	.462	.464	.462	.462
St. Paul, Minn.	29.144	.150	.149	.147	.150	.158	.160	.166	.167	.170	.170	.166	.160	.151	.139	.130	.130	.130	.134	.125	.135	.140	.147	.149	.147	.147
Salt Lake City, Utah	25.691	.692	.695	.695	.696	.700	.706	.718	.727	.736	.743	.747	.741	.731	.718	.703	.690	.673	.669	.688	.677	.688	.687	.687	.687	.687
San Diego, Cal.	29.812	.812	.808	.805	.799	.794	.793	.797	.806	.818	.825	.831	.831	.823	.811	.797	.785	.780	.777	.779	.788	.794	.805	.808	.808	
San Francisco, Cal.	29.846	.849	.850	.849	.846	.845	.845	.850	.853	.873	.882	.885	.884	.876	.863	.850	.850	.850	.850	.857	.860	.860	.855	.849	.847	
Santa Fe, N. Mex.	28.408	.411	.410	.408	.407	.409	.413	.423	.430	.439	.443	.441	.431	.421	.404	.387	.375	.369	.367	.369	.379	.384	.402	.408	.406	
Savannah, Ga.	29.958	.948	.943	.942	.950	.957	.972	.979	.990	.994	.988	.979	.964	.952	.937	.929	.927	.930	.936	.944	.956	.961	.964	.962	.956	
Washington, D. C.	29.941	.937	.932	.933	.939	.949	.960	.967	.972	.973	.968	.956	.941	.936	.916	.909	.909	.911	.917	.932	.942	.949	.950	.941	.941	
<i>West Indies.</i>																										
Basseterre, St. Kitts	29.905	.897	.892	.898	.909	.923	.936	.944	.951	.946	.933	.916	.899	.889	.888	.889	.888	.889	.897	.912	.928	.936	.935	.929	.920	.914
Bridgetown, Bar.	29.877	.873	.878	.885	.894	.905	.920	.930	.922	.906	.892	.883	.855	.854	.855	.856	.855	.856	.877	.881	.907	.912	.909	.904	.899	.891
Cienvuegues, Cuba	29.861	.849	.840	.839	.847	.860	.873	.888	.892	.891	.885	.873	.850	.829	.816	.818	.826	.826	.827	.837	.841	.856	.868	.884	.886	.875
Havana, Cuba	29.988	.871	.864	.861	.869	.881	.893	.899	.911	.914	.912	.906	.888	.883	.886	.886	.886	.886	.887	.896	.896	.906	.901	.895	.882	
Kingston, Jamaica	29.615	.600	.593	.592	.600	.609	.629	.626	.637	.631	.616	.594	.572	.561	.560	.558	.558	.558	.574	.593	.606	.628	.636	.633	.602	
Port of Spain, Trin.	29.851	.844	.852	.863	.877	.897	.906	.908	.900	.878	.855	.831	.817	.809	.808	.818	.830	.848	.866	.878	.881	.875	.883	.886	.888	
P. Principe, Cuba	29.561	.548	.541	.541	.545	.557	.567	.575	.581	.584	.573	.561	.543	.521	.506	.508	.519	.538	.553	.565	.579	.588	.580	.571	.554	
San Juan, P. R.	29.854	.841	.857	.840	.853	.863	.875	.886	.891	.888	.877	.861	.846	.831	.824	.824	.827	.842	.855	.868	.876	.880	.875	.878	.878	
Santiago de Cuba.	29.814	.804	.798	.799	.809	.820	.829	.834	.844	.840	.827	.813	.791	.773	.759	.759	.769	.781	.798	.815	.838	.841	.838	.839	.839	
Santo Domingo, S. D.	29.794	.785	.776	.781	.792	.803	.823	.838	.856	.881	.813	.791	.765	.715	.708	.717	.734	.766	.783	.818	.820	.812	.785	.785	.785	
Willemstad, Curaçao	29.794	.785	.776	.781	.792	.803	.823	.838	.856	.881	.813	.791	.765	.715	.708	.717	.734	.766	.783	.818	.820	.812	.785	.785	.785	

TABLE V.—Average wind movement for each hour of seventy-fifth meridian time, September, 1899.

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.	
Abilene, Tex.	7.1	6.6	7.0	6.5	6.4	5.9	5.1	4.2	4.8	6.9	8.8	9.3	10.6	10.9	11.0	10.7	10.8	10.0	7.3	6.5	6.7	6.5	6.7	7.0	8.0	
Albany, N. Y.	5.4	5.8	5.1	5.5	5.7	5.6	6.2	8.0	9.6	10.1	10.9	10.7	11.4	11.1	10.6	10.2	9.5	8.1	7.2	7.2	6.4	6.3	6.1	5.8	7.8	
Alpena, Mich.	7.7	7.1	6.9	7.5	7.2	7.0	6.9	7.2	7.6	8.1	8.7	9.4	8.8	9.0	8.7	8.4	8.0	7.9	7.2	6.8	6.8	7.4	7.7	7.8		
Amarillo, Tex.	14.1	14.3	15.0	14.7	14.2	14.7	13.7	18.5	18.1	15.5	16.9	17.1	16.8	15.8	15.2	15.2	14.9	14.5	18.1	12.5	13.8	13.8	18.7	14.6		
Atlanta, Ga.	9.2	8.6	8.2	7.9	7.9	8.1	8.6	8.2	7.9	8.4	8.7	9.3	9.6	9.4	9.6	9.7	9.8	8.5	9.8	9.0	10.1	9.6	8.9	8.9	8.9	
Atlantic City, N. J.	9.9	9.3	8.5	7.9	8.8	8.0	8.4	9.2	10.8	10.4	10.5	10.7	11.1	12.3	12.0	11.4	10.8	10.1	10.1	10.3	10.5	10.1	10.1	10.1	10.1	
Augusta, Ga.	8.5	3.7	3.9	3.8	4.1	4.0	3.9	4.2	5.4	6.2	6.4	7.0	7.2	7.8	7.6	7.3	6.1	5.4	5.0	4.4	4.6	3.9	3.9	5.2		
Baker City, Oreg.	5.1	6.8	7.8	8.6	8.4	8.9	9.1	9.2	9.1	9.1	7.5	4.2	3.6	4.6	5.1	5.9	7.0	7.5	7.0	7.0	6.6	4.2	3.4	4.4	6.6	
Baltimore, Md.	8.2	3.3	3.2	3.3	3.4	3.4	3.4	4.2	5.0	5.5	5.9	6.1	6.5	6.8	6.9	6.6	6.8	5.2	4.5	4.0	4.0	3.9	3.7	4.7		
Bismarck, N. Dak.	5.8	6.4	6.7	6.8	6.8	6.4	6.2	7.1	8.3	10.2	11.4	12.6	14.0	15.0	15.7	15.4	14.9	13.6	10.9	9.3	8.8	7.9	7.0	10.1		
Block Island, R. I.	14.8	14.7	14.8	15.8	14.5	15.8	14.2	15.4	16.3	16.2	15.6	15.3	15.8	16.4	16.8	16.3	15.4	14.8	15.8	16.3	16.7	15.9	15.4			
Boise, Idaho.	8.8	3.0	3.4	3.0	2.6	2.7	2.3	2.0	2.0	2.1	2.5	3.1	3.5	4.4	4.5	5.1	5.3	5.2	4.5	3.7	3.0	3.5	3.7	3.4		
Boston, Mass.	8.7	8.6	7.9	8.4	8.6	8.6	9.4	10.1	11.5	11.6	11.4	11.9	12.0	13.4	13.5	13.7	12.4	10.8	9.7	10.0	9.5	9.1	8.9	10.4		
Buffalo, N. Y.	12.9	13.7	12.7	13.4	13.3	13.8	12.8	13.0	13.0	12.9	13.2	13.9	14.7	14.9	14.0	13.1	13.6	13.4	12.7	12.8	13.6	13.2	13.4			
Cairo, Ill.	6.0	5.9	5.5	5.7	5.8	5.6	5.8	6.9	7.7	8.0	8.8	9.5	8.9	8.6	8.9	7.6	7.6	5.9	5.8	5.1	5.5	5.6	5.3	6.7		
Cape Henry, Va.	11.5	11.7	11.5	11.6	11.9	10.8	11.0	12.0	11.9	11.9	11.9	12.5	12.7	13.0	12.9	12.8	12.4	11.4	11.6	11.7	11.8	12.9	11.8	12.0		
Carson City, Nev.	5.0	5.0	3.9	2.6	2.8	2.7	2.5	2.3	1.8	1.7	1.6	2.7	3.7	4.7	6.5	7.5	8.3	9.3	9.0	10.0	8.9	7.8	7.3	6.6	5.1	
Cedar City, Utah.	7.5	8.2	7.5	7.4	7.4	7.0	7.1	7.2	7.5	8.7	8.7	9.3	9.6	9.6	9.6	9.6	9.7	9.2	7.4	7.0	6.0	5.8	6.3	7.1	6.5	
Charleston, S. C.	7.6	7.6	8.3	8.8	8.9	8.5	9.8	10.1	10.4	9.6	9.9	10.4	11.9	12.3	12.9	13.2	12.2	10.6	10.8	10.8	9.1	8.9	8.5	10.0		
Charlotte, N. C.	4.3	4.4	4.4	4.6	5.1	4.6	4.7	5.1	5.7	6.2	6.5	6.4	6.2	6.5	6.4	6.6	6.5	5.4	4.0	4.3	4.6	4.5	4.4	5.2		
Chattanooga, Tenn.	4.4	4.3	4.4	3.9	4.1	4.2	4.1	4.0	4.5	5.2	7.1	7.1	7.8	8.0	8.5	9.4	8.8	8.5	7.4	4.9	4.5	4.0	4.0	4.6	5.7	
Cheyenne, Wyo.	7.0	7.2	7.2	7.5	7.7	7.1	7.9	7.9	7.1	7.0	8.6	9.1	10.1	10.9	12.0	12.5	12.6	11.9	11.6	11.0	8.4	7.1	7.2	6.1	8.9	
Chicago, Ill.	17.6	17.7	18.2	17.8	15.7	15.6	15.2	16.2	16.4	14.9	16.8	16.3	17.4	17.9	18.8	17.9	19.1	18.0	16.6	16.2	16.0	16.1	16.5	16.9		
Cincinnati, Ohio.	5.0	5.0	4.7	4.2	4.7	4.6	4.8	5.6	6.5	8.3	9.1	10.3	10.6	10.5	11.0	10.6	9.6	9.6	6.2	6.1	6.0	5.6	5.8	7.2		
Cleveland, Ohio	15.9	15.8	16.3	14.8	14.6	15.0	15.0	15.2	14.6	14.7	15.0	15.3	15.4	14.5	14.3	14.7	15.5	14.7	14.8	13.8	14.0	14.4	15.6	15.7	15.0	
Columbia, Mo.	5.5	5.6	5.4	5.5	5.4	5.1	5.2	5.9	6.2	7.5	8.1	8.5	9.0	9.0	9.4	9.0	8.4	8.3	6.7	5.7	5.7	6.2	5.9	6.8		
Columbus, Ohio.	5.8	5.7	5.5	4.9	5.5	5.6	5.9	6.2	7.3	8.1	9.1	9.4	9.9	10.3	10.5	10.3	9.8	9.0	7.5	7.4	6.6	6.4	6.1	5.8	7.4	
Concordia, Kans.	6.4	6.0	5.4	5.5	5.5	4.9	4.2	4.3	5.4	7.1	8.3	9.0	9.8	9.7	9.8	10.0	9.6	9.5	8.6	6.3	6.4	6.5	6.6	7.0		
Corpus Christi, Tex.	9.9	8.9	7.9	7.5	6.7	6.0	6.0	6.2	6.4	6.9	7.8	8.6	9.5	10.8	11.8	14.1	14.0	18.8	18.0	12.5	11.9	11.8	10.7	9.8		
Davenport, Iowa.	5.8	5.6	5.5	5.3	5.7	6.2	6.4	7.3	7.5	8.1	8.7	9.1	9.6	9.4	9.0	9.0	8.8	6.5	5.0	5.1	5.8	5.3	6.8			
Denver, Colo.	6.8	6.9	6.7	7.4	7.1	7.1	7.4	7.0	6.2	6.0	6.4	7.8	7.8	8.0	7.6	8.4	9.0	8.8	7.9	6.5	6.8	6.7	7.3	7.2		
Des Moines, Iowa.	5.7	5.7	6.1	5.9	5.7	5.5	5.4	5.9	6.7	7.9	10.4	11.4	11.1	11.6	11.3	11.0	9.0	8.5	6.5	6.3	6.5	6.5	6.5	7.9		
Detroit, Mich.	7.8	8.4	7.7	7.8	8.1	8.1	8.1	8.7	8.8	8.4	9.5	10.2	10.6	11.3	11.1	11.1	11.2	10.5	9.0	8.6	8.6	8.1	7.8	9.1		
Dodge, Kans.	9.1	8.8	8.5	8.2	7.5	7.5	7.7	8.4	8.5	11.1	13.0	14.1	14.5	15.2	15.0	15.9	14.7	13.5	10.9	10.5	10.0	10.0	9.8	11.2		
Dubuque, Iowa.	5.6	5.3	5.5	5.2	6.0	5.7	6.2	6.4	7.8	8.8	9.6	10.2	11.1	11.1	11.8	11.1	10.5	9.1	7.5	5.7	4.9	5.2	5.4	7.5		
Duluth, Minn.	7.9	8.4	9.0	9.2	9.5	9.0	8.7	9.2	9.2	9.3	9.7	10.1	10.8	10.3	10.4	11.1	10.9	9.1	8.2	7.7	8.4	8.7	8.3	8.8	9.2	
Eastport, Me.	8.2	8.2	9.1	9.9	9.6	9.6	9.6	10.2	11.1	11.1	11.0	11.8	12.0	12.9	12.7	12.2	12.2	10.8	9.3	9.5	9.5	9.2	8.8	8.2	10.3	
Elkins, W. Va.	2.2	2.1	2.5	2.2	2.1	1.8	1.9	2.0	2.9	3.3	4.6	5.7	6.2	6.0	5.9	5.8	5.2	4.8	3.9	2.9	2.0	1.7	2.1	1.9	3.8	
El Paso, Tex.	8.1	8.6	9.4	9.3	9.0	8.8	8.5	8.5	7.5	8.2	8.4	8.1	8.3	8.5	8.6	8.8	8.3	8.8	8.8	8.6	8.8	7.4	7.7	8.3		
Erie, Pa.	11.2	11.8	11.6	11.9	11.4	11.1	11.1	11.9	11.1	11.6	11.2	11.8	11.5	11.4	11.8	11.4	10.8	10.4	9.5	10.3	10.7	11.8	12.0	11.8		
Escanaba, Mich.	8.6	7.7	8.1	8.0	7.6	7.6	8.1	8.1	9.5	10.1	11.7	12.2	12.6	12.6	12.7	12.7	12.0	11.6	11.0	9.8	9.8	8.5	8.5	10.1		
Eureka, Cal.	3.1	2.9	3.9	3.1	3.0	2.7	2.7	2.4	2.4	2.4	2.5	2.9	3.3	4.4	5.1	6.2	6.5	6.7	6.8	6.2	5.9	5.9	5.9	4.0		
Evansville, Ind.	4.6	5.0	4.7	4.9	4.9	4.8	4.7	5.1	5.6	6.5	7.2	7.8	8.7	9.3	8.8	8.3	8.0	7.7	7.6	7.6	7.6	7.6	7.6	6.3		
Fort Canby, Wash.	7.8	8.5	7.8	7.8	7.1	7.1	8.5	8.7	8.7	8.4	7.6	7.2	7.5	7.9	8.4	9.5	10.1	9.6	9.2	10.2	10.9	10.8	9.0	8.8		
Fort Smith, Ark.	5.1	5.0	5.8	5.0	5.0	4.7	4.8	4.4	4.9	5.5	5.5	6.5	8.4	8.4	8.6	8.4	7.7	7.2	5.7	5.6	5.2	5.0	4.9	6.1		
Fresno, Cal.	7.5	7.6	7.2	6.8	5.5	5.2	5.4	5.7	4.7	4.8	4.1	4.0	4.0	4.5	5.1	4.8	4.6	5.2	5.8	5.5	5.2	5.4	6.8	5.4		
Galveston, Tex.	7.0	6.9	6.8	6.8	6.4	6.3	6.5	7.3	7.7	8.1	8.0	8.4	8.2	8.3	8.1	8.0	7.7	7.4	7.0	7.0	6.7	7.1	7.3			
Grand Haven, Mich.	7.2	7.3	7.8	7.1	7.0	6.4	6.5	6.7	8.4	9.6	10.4	11.8	11.8	12.0	12.0	12.2	11.6	10.2	9.9	7.7	7.5	8.1	7.7	8.9		
Grand Junction, Colo.	8.6	8.7	4.5	4.7	5.5	5.3	5.8	5.6	5.9	6.2	6.6	7.1	7.6	7.7	7.5	7										

TABLE V.—Average wind movement, etc.—Continued.

Stations.	Average wind movement, etc.												Average wind movement, etc.												Midnight.	Mean.
	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.			
New Haven, Conn....	6.6	6.6	6.7	6.8	6.2	6.5	7.0	7.6	8.9	10.0	10.7	10.9	12.0	11.7	11.3	10.8	8.3	8.0	7.5	7.5	7.1	6.7	7.1	8.5		
New Orleans, La....	6.3	6.8	6.1	6.6	7.1	7.4	7.4	7.2	8.4	9.7	9.6	9.7	10.3	10.8	10.5	9.9	9.1	8.0	7.7	7.1	7.3	7.8	6.5	8.1		
New York, N. Y....	11.4	11.2	11.5	11.1	10.5	10.4	11.3	12.2	12.2	13.7	13.7	14.2	15.2	15.3	15.3	17.2	17.1	16.2	14.3	14.8	14.7	14.5	14.0	18.0	18.6	
Norfolk, Va....	5.9	5.7	5.7	6.0	6.1	6.4	5.9	6.6	7.8	8.5	9.6	10.2	10.3	10.8	10.6	11.1	10.6	9.5	7.9	7.8	7.6	7.0	6.4	8.0		
Northfield, Vt....	7.5	7.3	7.8	7.7	7.7	8.0	7.8	8.5	10.1	12.0	12.9	13.9	12.9	12.7	13.5	13.1	11.3	9.8	8.6	8.3	8.8	8.1	8.9	8.0	9.6	
North Platte, Nebr....	6.8	6.0	5.8	5.9	5.7	6.2	6.9	7.0	6.5	7.1	8.5	9.5	10.6	11.4	11.5	11.5	10.9	10.5	9.8	8.9	7.5	7.4	7.6	8.2		
Oklahoma, Okla....	6.5	6.2	5.8	5.8	6.2	5.8	5.7	5.5	6.8	7.9	8.8	8.8	8.6	8.8	9.1	9.8	9.1	8.7	7.5	6.2	6.2	6.5	7.1			
Omaha, Nebr....	6.5	6.8	6.1	6.0	5.8	5.5	5.4	6.2	6.8	8.2	9.2	10.3	11.0	11.1	11.7	12.1	11.5	10.5	8.5	7.6	7.1	7.4	8.1			
Oswego, N. Y....	10.1	10.0	10.2	10.3	10.7	10.8	10.9	11.4	12.5	12.5	12.3	12.9	12.6	11.5	11.5	10.4	9.5	9.5	9.5	10.2	9.8	9.8	10.9			
Palestine, Tex....	4.2	4.2	3.9	3.8	3.8	3.4	3.5	3.8	4.7	6.9	7.8	7.0	7.4	7.0	7.8	7.4	7.7	7.4	6.0	4.1	3.9	4.2	5.3			
Parkersburg, W. Va....	4.0	4.6	4.3	4.6	4.5	4.3	3.9	4.4	5.0	5.9	6.5	7.1	7.5	7.5	7.8	6.6	5.6	5.1	4.5	4.7	4.3	4.5	3.8	5.4		
Pensacola, Fla....	6.7	7.3	7.6	7.5	8.3	8.0	8.2	8.4	9.2	9.6	9.7	9.9	9.4	9.3	9.6	10.1	10.3	9.8	7.5	6.8	7.6	7.9	7.8	8.5		
Phoenix, Ariz....	8.5	3.9	4.0	3.5	3.8	3.7	4.2	3.9	4.6	4.1	4.5	5.0	5.3	5.0	4.7	4.9	4.6	4.7	5.1	3.9	3.2	2.9	4.1			
Philadelphia, Pa....	7.2	6.8	6.7	7.4	6.7	6.7	6.9	7.9	8.3	9.3	9.6	9.9	10.9	11.1	11.3	11.3	10.9	10.2	9.8	8.9	8.5	8.2	8.8	8.7		
Pierre, S. Dak....	9.1	8.6	8.2	7.9	7.3	7.0	7.3	7.4	7.8	9.9	12.3	13.2	14.9	15.2	14.7	15.0	14.6	14.3	13.6	11.9	11.8	11.5	11.4	10.8		
Pittsburg, Pa....	4.6	4.6	4.9	4.4	4.9	4.9	4.9	5.6	5.7	6.3	6.9	7.5	8.0	8.2	7.8	7.8	8.1	7.4	6.2	5.1	5.0	5.0	4.8	6.0		
Pocatello, Idaho....	10.4	10.6	10.8	9.6	8.4	9.3	10.4	10.9	10.7	9.2	8.8	8.4	8.6	8.4	8.9	9.5	9.6	9.0	7.5	6.0	6.7	8.9	10.4	9.3		
Point Reyes Lt., Cal....	17.0	16.8	15.2	14.6	14.2	14.0	14.3	14.7	14.5	14.6	14.2	14.6	15.0	15.8	17.1	17.3	16.9	17.4	17.9	17.1	17.7	17.3	16.0	15.9		
Port Crescent, Wash....	2.7	2.6	2.7	2.7	2.6	2.5	2.8	2.7	2.6	2.7	2.8	3.8	5.7	7.0	6.2	6.7	6.7	6.7	4.6	4.2	3.7	3.1	2.8	4.0		
Port Huron, Mich....	10.1	9.8	9.3	9.2	9.4	8.9	9.6	9.9	11.0	11.1	11.3	11.7	13.2	12.8	13.0	12.1	12.4	10.9	10.6	10.4	10.2	10.5	10.9	10.7		
Portland, Me....	5.7	5.8	5.8	5.8	6.0	6.4	6.5	7.1	8.5	9.2	9.4	10.1	10.7	11.1	10.9	10.5	9.4	7.8	6.7	6.5	6.4	6.6	6.1	7.7		
Portland, Oreg....	6.5	6.0	5.9	5.8	5.9	5.9	6.2	5.9	5.7	5.8	6.1	7.0	7.1	7.0	7.4	7.4	7.3	7.4	7.2	7.2	6.9	6.5	6.6			
Pueblo, Colo....	6.7	5.9	5.2	5.1	5.5	5.4	4.4	3.9	3.8	3.5	4.6	5.5	6.2	6.5	7.1	8.3	8.7	8.6	8.2	8.0	5.8	5.6	6.0			
Raleigh, N. C....	4.0	4.3	4.1	4.4	3.6	3.9	4.1	5.0	5.9	6.7	6.9	6.5	6.0	6.4	6.5	5.9	6.1	5.0	4.0	4.0	4.7	4.4	5.1			
Rapid City, S. Dak....	5.1	5.5	5.2	5.3	5.3	4.3	4.6	5.1	5.0	5.9	7.1	7.6	9.0	9.4	9.3	8.5	7.5	6.6	6.4	4.4	5.1	5.0	6.4			
Red Bluff, Cal....	4.8	4.6	4.3	5.0	5.2	4.7	4.5	4.5	4.5	4.7	4.5	4.5	6.1	6.9	6.8	6.0	5.9	6.1	6.4	6.0	5.3	5.5	5.2	5.4		
Richmond, Va....	8.9	8.8	8.3	8.3	8.3	8.3	8.8	4.5	5.1	5.7	6.0	6.8	6.7	6.6	6.4	6.2	5.9	5.6	4.7	4.5	4.3	5.0				
Rochester, N. Y....	6.1	6.2	6.0	6.6	6.8	6.8	6.4	7.4	8.1	8.3	8.8	9.4	9.8	9.9	9.4	9.1	8.5	7.3	6.1	6.0	5.8	5.7	6.1	7.4		
Roseburg, Oreg....	2.0	2.0	1.5	1.4	1.4	1.9	1.7	1.3	1.6	1.6	2.0	2.4	3.1	3.9	4.3	5.0	5.5	6.6	6.7	7.0	6.1	3.7	2.6	3.3		
Sacramento, Cal....	8.5	7.8	8.1	8.2	8.2	7.9	6.5	5.8	5.8	4.9	4.8	5.0	5.4	5.7	6.5	6.4	6.4	6.5	6.4	6.8	8.1	8.2	6.7			
St. Louis, Mo....	8.6	8.8	9.2	8.6	8.5	8.1	8.2	8.8	9.2	9.3	9.6	10.4	11.0	11.2	11.3	11.4	11.6	11.0	9.9	9.4	9.8	9.8	9.1	8.7	9.6	
St. Paul, Minn....	6.4	6.8	6.5	6.8	6.6	7.0	6.5	7.0	7.6	8.4	9.0	9.6	10.5	10.3	10.5	9.7	9.6	8.6	8.7	7.4	8.5	6.5	6.8	7.9		
Salt Lake City, Utah....	4.4	3.9	3.1	2.9	3.2	3.4	3.7	3.0	3.2	3.8	3.2	3.1	3.1	3.7	3.7	3.0	2.9	2.4	2.1	1.9	1.8	1.7	1.6	1.5		
San Antonio, Tex....	6.5	5.4	4.7	4.2	4.1	4.4	4.6	4.8	5.0	6.1	7.1	7.7	7.7	8.3	8.4	8.9	8.7	9.5	10.4	9.4	8.9	8.9	8.7	7.3	7.1	
San Diego, Cal....	2.7	2.8	2.8	3.0	3.0	3.2	3.3	2.4	2.6	2.5	2.8	4.4	4.7	7.0	9.0	10.6	10.8	9.8	7.7	6.8	5.2	4.0	3.4	5.3		
Sandusky, Ohio....	8.6	9.4	8.9	8.6	8.4	8.1	8.1	8.5	9.1	9.5	9.5	10.1	10.5	10.8	11.7	12.0	12.0	10.3	9.5	9.1	7.6	7.0	6.7	9.5		
Sandy Hook, N. J....	18.1	16.6	16.2	16.2	15.4	15.5	15.7	16.6	15.7	16.1	16.7	16.9	17.7	18.3	19.0	18.7	18.8	18.5	16.9	18.4	17.2	17.8	17.6	16.9	17.1	
San Francisco, Cal....	12.9	11.3	10.0	9.1	8.9	8.2	8.2	7.3	7.2	6.4	6.4	6.4	6.3	7.0	7.0	8.2	9.6	10.5	10.3	8.8	7.1	6.6	5.2	5.2		
San Luis Obispo, Cal....	2.6	2.4	3.6	2.7	2.5	3.1	3.0	3.1	3.1	3.1	3.7	4.3	4.7	5.2	5.9	7.3	8.1	7.5	6.7	5.8	4.5	3.8	3.0	4.4		
Santa Fe, N. Mex....	6.9	6.1	5.1	4.2	3.7	3.2	3.4	3.2	3.4	3.0	2.9	2.6	3.0	3.9	4.8	6.2	7.3	8.3	7.8	7.1	6.8	6.4	6.7	5.5		
Sault Ste. Marie, Mich....	7.2	6.7	7.4	7.5	7.2	7.9	7.6	8.2	8.8	8.7	9.0	9.8	10.8	11.7	13.1	14.3	14.5	13.7	12.0	10.3	9.5	9.1	7.6	7.0	6.7	
Savannah, Ga....	4.5	4.7	5.2	5.2	6.0	5.9	5.4	6.1	7.3	7.4	7.8	8.4	9.0	9.7	9.3	9.1	8.3	8.8	5.6	5.8	5.3	4.9	4.7	6.7		
Seattle, Wash....	2.8	2.6	2.7	2.9	3.0	2.8	2.6	2.4	2.5	3.2	3.1	4.0	4.4	4.5	5.1	5.6	5.4	5.7	5.6	5.5	5.2	4.5	3.6	3.9		
Shreveport, La....	4.7	4.5	4.5	4.3	4.2	3.8	3.8	3.8	5.1	6.5	6.8	6.7	7.0	7.3	7.6	8.3	8.1	7.4	6.1	5.8	5.5	5.2	5.2			
Tacoma, City, Iowa....	10.9	9.9	9.9	10.3	10.1	10.4	10.3	11.6	10.7	11.2	12.7	15.3	17.1	16.8	16.9	16.2	15.2	13.7	12.2	12.4	12.9	12.6	12.0	12.8		
Spokane, Wash....	3.7	3.9	3.2	3.4	3.5	3.5	3.5	3.6	3.4	3.5	4.9	5.5	5.7	5.5	5.5	6.0	6.0	6.0	5.8	5.1	4.4	4.5	3.9	4.5		
Springfield, Ill....	7.2	7.3	6.9	6.8	7.2	7.2	7.1	7.1	8.2	8.7	9.1	9.5	9.6	9.8	10.1	10.0	9.6	9.8	9.9	9.0	9.6	9.1	7.9			
Springfield, Mo....	8.7	8.7	8.5	8.1	8.0	7.8	8.2	8.3	8.3	9.3	10.5	10.8	11.2	11.0	10.9	11.6	11.3	11.2	9.7	7.8	7.7	8.1	8.8	9.3		
Tacoma, Wash....	4.1	4.1	4.1	3.8	3.8	3.8	3.5	4.8	5.9	6.7	6.9	7.2	7.9	7.6	7.5											

TABLE VI.—Resultant winds from observations at 8 a. m. and 8 p. m., daily, during the month of September, 1899.

Stations.	Component direction from—				Resultant.		Stations.	Component direction from—				Resultant.	
	N.	S.	E.	W.	Direction from—	Duration.		N.	S.	E.	W.	Direction from—	Duration.
<i>New England.</i>					o	Hours.						o	Hours.
Eastport, Me.	14	25	12	21	s. 39 w.	14	Bismarck, N. Dak.	30	10	17	21	n. 11 w.	20
Portland, Me.	13	21	14	28	s. 60 w.	16	Williston, N. Dak.	26	17	10	15	n. 29 w.	10
Northfield, Vt.	12	42	3	9	s. 11 w.	31	<i>Upper Mississippi Valley.</i>						
Boston, Mass.	13	23	10	27	s. 60 w.	20	St. Paul, Minn.	22	22	10	20	w.	10
Nantucket, Mass.	18	18	15	23	w.	8	La Crosse, Wis. †	9	10	11	7	s. 76 e.	4
Wood Hole, Mass.	17	19	16	21	s. 68 w.	5	Davenport, Iowa	26	15	12	22	n. 49 w.	15
Block Island, R. I.	13	20	16	23	s. 45 w.	10	Des Moines, Iowa	24	18	18	14	n. 34 e.	11
New Haven, Conn.	24	18	14	22	n. 53 w.	10	Dubuque, Iowa	25	19	12	21	n. 56 w.	10
<i>Middle Atlantic States.</i>							Keokuk, Iowa	20	21	12	22	s. 84 w.	10
Albany, N. Y.	15	27	11	21	s. 40 w.	16	Cairo, Ill.	24	24	8	16	w.	8
Binghamton, N. Y. †	9	14	3	13	s. 61 w.	10	Springfield, Ill.	24	15	12	21	n. 45 w.	13
New York, N. Y.	16	18	17	24	s. 74 w.	1	Hannibal, Mo. †	10	9	9	11	n. 38 w.	9
Harrisburg, Pa. †	9	8	10	10	n.	1	St. Louis, Mo.	24	19	10	17	n. 54 w.	9
Philadelphia, Pa.	19	21	16	17	s. 27 w.	2	<i>Missouri Valley.</i>						
Atlantic City, N. J.	18	23	12	20	s. 58 w.	9	Columbia, Mo. *	13	9	9	6	n. 37 e.	5
Cape May, N. J.	19	23	12	17	s. 51 w.	6	Kansas City, Mo.	20	21	18	14	s. 76 e.	4
Baltimore, Md.	20	20	17	17	s. 45 e.	6	Springfield, Mo.	23	27	17	8	s. 66 e.	10
Washington, D. C.	20	26	14	14	s. 45 e.	8	Lincoln, Nebr.	23	24	18	9	s. 84 e.	9
Lynchburg, Va.	17	23	16	18	s. 70 e.	20	Omaha, Nebr.	22	17	13	11	n. 73 e.	19
Norfolk, Va.	16	23	27	8	s. 66 e.	10	Sioux City, Iowa	18	11	7	5	n. 45 e.	8
Richmond, Va.	22	26	17	8	n. 69 e.	19	Pierre, S. Dak.	20	19	26	12	s. 86 e.	14
<i>South Atlantic States.</i>							Huron, S. Dak.	20	18	22	16	n. 72 e.	6
Charlotte, N. C.	26	17	27	8	n. 65 e.	21	Yankton, S. Dak. †	10	7	8	13	n. 50 w.	6
Hatteras, N. C.	23	11	11	13	n. 3 w.	22	<i>Northern Slope.</i>						
Kittyhawk, N. C.	25	14	26	11	n. 57 e.	5	Havre, Mont.	19	11	12	9	n. 67 w.	21
Raleigh, N. C.	19	16	21	17	n. 53 e.	30	Miles City, Mont.	17	26	16	14	s. 13 e.	9
Wilmingtn, N. C.	27	13	23	14	n. 33 e.	16	Helena, Mont.	14	21	5	35	s. 77 w.	31
Charleston, S. C.	29	11	24	7	n. 43 e.	10	Kalispell, Mont.	18	21	15	26	s. 75 w.	11
Augusta, Ga.	23	15	20	14	n. 37 e.	10	Rapid City, S. Dak.	19	15	15	23	n. 63 w.	9
Savannah, Ga.	25	11	26	9	n. 51 e.	22	Cheyenne, Wyo.	25	18	10	22	n. 60 w.	14
Jacksonville, Fla.	23	16	28	10	n. 69 e.	19	Lander, Wyo.	16	21	18	29	s. 73 w.	17
<i>Florida Peninsula.</i>							North Platte, Nebr.	19	21	19	13	s. 72 e.	6
Jupiter, Fla.	22	17	28	11	n. 67 e.	13	<i>Middle Slope.</i>						
Key West, Fla.	23	11	34	9	n. 64 e.	31	Denver, Colo.	22	23	17	7	s. 84 e.	10
Tampa, Fla.	35	7	24	10	n. 27 e.	1	Pueblo, Colo.	20	15	22	20	n. 22 e.	5
<i>Eastern Gulf States.</i>							Concordia, Kans.	11	29	18	10	s. 34 e.	20
Atlanta, Ga.	23	10	26	16	n. 38 e.	16	Dodge, Kans.	16	20	16	8	s. 80 e.	16
Macon, Ga. †	18	6	9	6	n. 14 e.	12	Wichita, Kans.	22	23	13	7	s. 45 e.	8
Pensacola, Fla. †	20	1	14	3	n. 30 e.	22	Oklahoma, Okla.	25	29	13	2	s. 63 e.	11
Mobile, Ala.	35	9	9	17	n. 17 w.	27	<i>Southern Slope.</i>						
Montgomery, Ala.	34	11	15	11	n. 10 e.	23	Abilene, Tex.	19	25	26	5	s. 18 e.	6
Meridian, Miss. †	15	4	10	8	n. 10 e.	11	Amarillo, Tex.	13	35	17	5	s. 38 e.	26
Vicksburg, Miss.	26	9	25	9	n. 43 e.	23	<i>Southern Plateau.</i>						
New Orleans, La.	27	15	19	10	n. 37 e.	5	El Paso, Tex.	18	10	35	11	n. 72 e.	25
<i>Western Gulf States.</i>							Santa Fe, N. Mex.	15	26	25	12	s. 50 e.	17
Shreveport, La.	21	19	27	9	n. 84 e.	18	Flagstaff, Ariz.	22	10	20	9	n. 5 w.	12
Fort Smith, Ark.	20	10	26	11	n. 56 e.	18	Phoenix, Ariz.	16	13	23	23	n. 4 w.	4
Little Rock, Ark.	25	18	19	15	n. 30 e.	8	Yuma, Ariz.	13	15	18	26	s. 76 w.	8
Corpus Christi, Tex.	17	18	33	7	n. 88 e.	26	Independence, Cal.	23	16	11	27	n. 66 w.	18
Fort Worth, Tex. †	7	18	7	10	n. 27 w.	7	<i>Middle Plateau.</i>						
Galveston, Tex.	18	18	29	8	e.	21	Carson City, Nev.	16	14	11	19	n. 76 w.	8
Palestine, Tex.	31	19	15	1	n. 49 e.	18	Winnemucca, Nev.	24	17	13	19	n. 41 w.	9
San Antonio, Tex.	28	16	27	2	n. 64 e.	28	Cedar City, Utah.	17	29	16	13	s. 14 e.	12
<i>Ohio Valley and Tennessee.</i>							Salt Lake City, Utah.	25	16	18	19	n. 6 w.	9
Chattanooga, Tenn.	18	16	12	27	n. 82 w.	15	Grand Junction, Colo.	19	15	21	19	n. 27 e.	4
Knoxville, Tenn.	30	9	17	17	n. 82 w.	21	<i>Northern Plateau.</i>						
Memphis, Tenn.	30	14	12	19	n. 34 w.	18	Baker City, Oreg.	20	23	4	14	s. 51 w.	13
Nashville, Tenn.	31	10	14	19	n. 18 w.	21	Boise, Idaho.	12	11	16	8	s. 86 w.	15
Lexington, Ky. †	9	13	5	11	n. 56 w.	7	Pocatello, Idaho.	17	21	7	22	s. 75 w.	16
Louisville, Ky.	25	21	7	19	n. 72 w.	13	Spokane, Wash.	11	26	23	13	s. 31 e.	18
Evansville, Ind. †	11	13	6	6	s.	2	Walla Walla, Wash.	8	30	19	12	s. 18 e.	23
Indianapolis, Ind.	20	18	10	17	n. 82 w.	13	<i>North Pacific Coast Region.</i>						
Cincinnati, Ohio.	23	15	17	20	n. 21 w.	10	Fort Canby, Wash.	35	15	7	14	n. 19 w.	21
Columbus, Ohio.	23	16	14	21	n. 35 w.	9	Neah, Wash.	6	4	24	29	n. 68 w.	5
Pittsburg, Pa.	22	17	15	23	n. 58 w.	3	Port Crescent, Wash. *	0	1	13	17	s. 79 w.	5
Parkersburg, W. Va.	21	23	18	15	n. 27 e.	2	Seattle, Wash.	19	20	12	20	s. 83 w.	8
Elkins, W. Va.	13	19	11	23	n. 83 w.	13	Portland, Oreg.	20	15	8	29	n. 55 w.	6
<i>Lower Lake Region.</i>							Roseburg, Oreg.	33	6	19	19	n.	27
Buffalo, N. Y.	20	14	15	24	n. 56 w.	11	<i>Middle Pacific Coast Region.</i>						
Oswego, N. Y.	17	24	10	22	n. 60 w.	8	Eureka, Cal.	27	14	8	28	n. 57 w.	24
Rochester, N. Y.	18	22	9	29	n. 73 w.	21	Mount Tamalpais, Cal.	32	1	4	35	n. 45 w.	44
Erie, Pa.	20	17	18	19	n. 63 w.	7	Red Bluff, Cal.	30	18	17	10	s. 80 e.	14
Cleveland, Ohio.	15	18	17	18	n. 53 e.	5	Sacramento, Cal.	18	31	18	10	s. 28 e.	17
Sandusky, Ohio.	20	18	16	18	n. 45 w.	3	San Francisco, Cal.	0	18	1	51	s. 70 w.	53
Toledo, Ohio.	19	16	13	23	n. 78 w.	10	<i>South Pacific Coast Region.</i>						
Detroit, Mich.	23	16	13	23	n. 55 w.	12	Fresno, Cal.	35	4	8	35	n. 41 w.	41
<i>Upper Lake Region.</i>							Los Angeles, Cal.	3	21	2	40	s. 65 w.	42
Alpena, Mich.	30	14	9	23	n. 41 w.	21	San Diego, Cal.	24	16	3	32	n. 75 w.	30
Escanaba, Mich.	24	15	9	27	n. 63 w.	16	San Luis Obispo, Cal.	32	8	4	22	n. 37 w.	30
Grand Haven, Mich.	29	18	18	14	n. 14 e.	16	<i>West Indies.</i>						
Marquette, Mich.	26	14	12	25	n. 47 w.	18	Basseterre, St. Kitts Island.	14	11	43	2	n. 86 e.	41
Port Huron, Mich.	24	16	10	21	n. 54 w.	14	Bridge town, Barbados.	3	20	44	2	s. 74 e.	44
Sault Ste. Marie, Mich.	25	13	18	18	n.	4	Cienfuegos, Cuba.	39	3	29	3	n. 38 e.	44
Chicago, Ill.	25	16	18	15	n. 18 e.	10	Havana, Cuba.	34	7	33	6	n. 45 e.	38
Milwaukee, Wis.	25	15	14	19	n. 24 w.	11	Kingston, Jamaica.	44	2	33	3	n. 35 e.	52
Green Bay, Wis.	23	19	15	15	n.	16	Puerto Principe, Cuba.	21	8	40	2	n. 71 e.	40
Duluth, Minn.	31	10	13	21	n. 21 w.	22	San Juan, Porto Rico.	3	25	33	4	s. 57 e.	40
<i>North Dakota.</i>							Santiago de Cuba, Cuba.	24	17	24	2	n. 73 e.	27
Moorhead, Minn.	25	5	5	15	n. 27 w.	22	Willemstad, Curacao.	1	5	57	0	n. 86 e.	56

\* From observations at 8 p. m. only.

† From observations at 8 a. m. only.

TABLE VII.—*Thunderstorms and auroras, September, 1899.*

States.	No. of stations.																															Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Alabama.....	53	T.	1	2	4	1	4	2	3	2	2	1			1	1																23	12	T.
Arizona.....	53	T.	2	2	2	5	4	5	10	8	3	4	1	3	1	1															6	0	A.	
Arkansas.....	57	T.			1		3	6	2	6						6															47	15	A.	
California.....	189	T.									1																				80	9	T.	
Colorado.....	73	T.	10	3	3	1	2	5	3	3		2	8	8	4			2													53	13	A.	
Connecticut.....	23	T.		1	12	1			4										1											23	7	T.		
Delaware.....	5	T.							1																						4	3	T.	
Dist. of Columbia	4	T.		1																											2	2	A.	
Florida.....	45	A.	8	8	3	3	6	4	3	2	7	9	6	7	6	4	6	7	6	3	1	8	1	2	1	1	1	111	60	A.				
Georgia.....	54	A.	3	3	2	1	1	2	2	7	2	1																36	12	A.				
Idaho.....	27	T.	4	1	1	1	1			2	1																		10	6	T.			
Illinois.....	92	T.	1		2	9	17	11	2							1	7	3			6	1	11	2	2	7	1	82	16	A.				
Indiana.....	55	T.	4	3	1	11	12	13		1						3	1				10	1						59	11	A.				
Indian Territory.	8	T.														2													0	2	T.			
Iowa.....	126	A.	2		1	4	6	20	4	6		3	4	7	1	1		3	17	1	8	1	1	1	2		88	20	A.					
Kansas.....	74	A.						14	6	3	1	1		1	8	1	1	1	9								8	4	A.					
Kentucky.....	45	A.	1		1	2	4	5	1	1									1	1		2	3	1			47	0	A.					
Louisiana.....	45	T.	8	6	2	4	4	5	7	4	7	8	4	2		4											60	13	T.					
Maine.....	17	T.		9	1				1																			14	5	A.				
Maryland.....	39	T.	3	11	1		1	2	12	3		1							2	1	1	2	22	3			65	14	T.					
Massachusetts....	54	T.	1	22				1	10										3	1							41	6	T.					
Michigan.....	107	T.	3		5	26	18	15	2	3						4	7	4			20	1	1	1			104	13	T.					
Minnesota.....	64	T.	4	8	6	10	6	12	6		8		1	4	6	3			1	2	2	7	4	1			10	3	A.					
Mississippi.....	42	T.	4	1	5	4	5	3	6	2	5	3	1		3												78	14	A.					
Missouri.....	89	T.	1		1	1	14	9	5						14	9	2	1		10	1	1	1	1	8		76	15	A.					
Montana.....	37	T.	2	1	4	1	1				1		4	7		1											20	7	T.					
Nebraska.....	145	T.		2	1			8	22	1		1	1	2	2	1				10							45	10	A.					
Nevada.....	45	T.	4	1						1																	7	4	A.					
New Hampshire.....	20	A.		4			1	4		1	1	1															13	7	A.					
New Jersey.....	50	T.	5	14	4		1	20	2	1											2	7	12			8		3	8	A.				
New Mexico.....	38	T.	4	4	4		8	2	3	2	1	1		2	4	2		1	1							2	32	14	A.					
New York.....	103	T.	9	4	28		5	16	1		1	1							1	1	19	8				15	1	1	1	A.				
North Carolina..	56	T.	1	6	4	4	1	7	10	12	12	2	2						1	1	1		9	1			74	16	T.					
North Dakota...	40	T.		5	2					2																	9	3	A.					
Ohio.....	124	T.	15	1	6	1	12	11	18	12	2			1		6	4		1	18	4		1				107	15	T.					
Oklahoma.....	23	T.					2	3	5	1				1	2			3								18	8	A.						
Oregon.....	71	T.	2	3	4	1			1		2	2	1														15	7	A.					
Pennsylvania....	100	T.	16	7	11		3	6	2	27	7	1	2	2					2	1	1	1	3	2	1	1	129	22	A.					
Rhode Island....	8	T.		2					1																		4	3	T.					
South Carolina..	44	T.	5	3	6	2	1	2	13	2	4	2	3			1	1	5	5	1							55	15	T.					
South Dakota....	52	T.	1	2	4	4	5							1	1	5	5	1									29	10	T.					
Tennessee.....	61	T.	1	2	1	4	8	11	7	2	4	4		1		1	2			3	1		11	1	1	1	63	17	T.					
Texas.....	83	T.	2	1	2		1	2	6	4	5	2	3		1	6										35	12	A.						
Utah.....	34	T.	2	1										2	1	4	1										11	6	A.					
Vermont.....	14	T.		6					3																		0	6	T.					
Virginia.....	47	T.	1	5	3	2	9	10	10	4	2							3	1	1	1	13	2			66	15	A.						
Washington.....	55	T.	3	1	8	4					1	2	1													8	8	A.						
West Virginia...	38	T.	8	6	3	1	2	2	12	11	2	1			1				1		3					54	14	T.						
Wisconsin.....	60	T.	5	5	16	17	7		10	1				1	7	1				3	2					76	18	A.						
Wyoming.....	18	T.	3							1		1	3	1						1	1	4	6				12	4	A.					
Sums .....	2,804	T.	192	101	178	72	119	151	238	241	79	80	42	31	34	36	48	61	51	25	25	20	19	59	16	61	139	43	T.					
		A.	1	6	0	0	1	2	3	0	3	0	0	1	0	1	0	0	0	1	0	0	0	2	1	27	5	2	0	1	A.			

TABLE VIII.—Average hourly sunshine (in percentages), September, 1899.

Stations.	Instrument.	Percentages for each hour of local mean time ending with the respective hour.														Hours of sunshine.					
		A. M.							P. M.							Total.					
		5	6	7	8	9	10	11	Noon	1	2	3	4	5	6	7	8	Actual.	Possible.	Percent of possible.	Personal estimate.
Albany, N. Y.	T.	36	40	53	67	73	82	77		78	78	65	58	52	46	43		234.4	375.0	63	43
Atlanta, Ga.	T.	75	73	79	88	88	88	89		89	87	81	83	88	83	86		300.0	371.8	81	71
Atlantic City, N. J.	T.	64	70	67	70	73	70	70		81	86	89	89	84	73	73		298.9	373.4	76	76
Baltimore, Md.	T.	61	57	68	77	84	78	86		85	88	84	82	74	54	65		285.3	373.4	87	77
Binghamton, N. Y.	T.	19	24	32	42	48	49	46		40	38	32	30	31	40	47		186.8	374.5	75	75
Bismarck, N. Dak.	T.	53	55	69	78	86	86	85		76	87	82	83	78	74	88		291.7	376.9	92	92
Boise, Idaho	T.	86	84	90	97	99	99	97		92	94	91	93	90	85	92		342.0	375.4	58	58
Boston, Mass.	T.	45	40	50	55	63	62	68		67	66	62	55	55	40	81		215.6	374.5	92	92
Buffalo, N. Y.	T.	23	27	44	54	65	71	71		75	73	74	61	42	38	27		211.2	375.0	56	56
Cedar City, Utah	T.	78	77	90	92	98	100	100		100	97	98	92	92	85	93		345.0	373.0	92	92
Charleston, S. C.	T.	88	87	47	68	72	66	72		71	69	74	72	49	49	44		227.7	371.4	61	60
Chattanooga, Tenn.	T.	71	69	75	87	88	95	98		93	98	89	79	73	65	69		311.5	372.0	84	71
Cheyenne, Wyo.	T.	78	74	29	82	89	87	85		86	85	79	78	70	51	53		290.4	374.0	78	78
Chicago, Ill.	T.	40	37	42	55	61	59	64		66	64	67	66	44	25	36		200.7	374.5	54	46
Cincinnati, Ohio	T.	82	73	74	79	85	87	87		89	89	88	81	84	82	83		290.9	373.4	86	86
Cleveland, Ohio	T.	34	30	35	40	49	48	52		57	55	55	55	50	38	42		184.5	374.5	44	45
Columbia, Mo.	T.	76	73	85	87	93	93	93		93	93	93	93	93	93	93		320.4	373.4	86	86
Columbus, Ohio	T.	90	27	38	90	48	53	64		83	68	65	56	52	45	54		183.7	373.6	49	49
Denver, Colo.	T.	72	78	85	87	87	89	90		87	82	81	79	71	53	54		298.7	373.5	80	76
Des Moines, Iowa	T.	82	80	57	57	73	75	76		77	75	68	66	58	64	64		247.4	374.5	66	57
Detroit, Mich.	T.	85	41	53	55	66	68	73		70	69	68	59	54	34	39		219.3	374.5	57	42
Dodge, Kans.	T.	57	55	72	79	88	88	89		80	88	88	82	76	75	50		299.2	373.0	73	71
Dubuque, Iowa	T.	60	55	67	75	80	82	89		80	82	82	82	76	75	46		265.8	374.5	71	65
Eastport, Me.	T.	28	31	41	52	71	55	60		60	63	67	62	54	49	43		201.8	375.8	54	35
Elkins, W. Va.	T.	5	10	15	52	71	71	72		69	65	65	57	53	36	24		178.7	373.4	48	35
Erie, Pa.	T.	20	21	25	40	48	49	60		54	54	50	52	58	52	73		179.0	374.5	71	71
Escanaba, Mich.	T.	21	23	17	23	37	40	42		47	40	34	23	16	16	7		110.3	376.1	29	29
Eureka, Cal.	T.	19	13	17	23	21	37	46		51	58	57	55	47	42	52		144.9	374.0	39	33
Fresno, Cal.	T.	83	83	89	97	98	98	98		100	100	98	98	95	95	100		235.4	373.6	86	86
Galveston, Tex.	T.	86	88	73	82	80	81	79		87	87	84	84	77	85	16		266.2	370.4	72	66
Grand Junction, Colo.	P.	97	93	94	90	92	91	93		94	92	89	95	88	92	98		342.2	373.4	92	71
Harrisburg, Pa.	T.	45	49	49	63	73	75	75		81	73	69	60	58	46	86		237.3	373.6	64	54
Helena, Mont.	T.	50	54	70	76	78	80	78		83	83	90	91	84	78	72		295.4	376.9	78	60
Huron, S. Dak.	T.	77	70	73	64	71	74	72		76	73	65	65	63	67	71		264.1	373.4	70	59
Indianapolis, Ind.	T.	53	50	56	74	77	70	68		75	73	67	68	65	49	82		226.9	373.6	61	49
Jacksonville, Fla.	T.	14	21	39	58	70	70	68		86	86	88	87	81	80	80		201.3	370.8	54	54
Kalispell, Mont.	T.	39	48	67	78	81	87	84		86	88	87	81	77	77	80		284.1	377.5	75	74
Kansas City, Mo.	T.	75	73	76	76	78	83	77		76	76	82	79	79	71	71		287.5	373.4	77	74
Key West, Fla.	T.	18	23	54	63	76	74	74		74	67	65	68	54	41	41		220.0	369.0	60	46
Knoxville, Tenn.	T.	67	67	73	79	84	90	90		91	73	70	64	47	40	40		288.3	372.2	76	60
Lexington, Ky.	T.	62	61	74	83	85	88	88		93	90	89	85	84	47	40		298.0	373.0	78	58
Little Rock, Ark.	T.	79	77	85	91	94	94	95		93	93	89	81	73	73	69		315.3	372.0	85	75
Los Angeles, Cal.	T.	40	37	51	59	81	91	94		92	96	98	90	85	85	87		288.7	371.8	81	71
Louisville, Ky.	T.	65	60	64	75	86	88	88		77	78	75	76	61	57	75		274.0	373.0	84	84
Macon, Ga.	T.	41	55	85	90	95	97	95		95	96	93	93	89	80	88		214.8	371.4	84	84
Meridian, Miss.	T.	83	83	84	94	97	97	95		90	86	86	80	71	71	85		311.8	371.4	91	84
Minneapolis, Minn.	T.	40	38	54	62	67	65	63		73	72	73	73	63	46	32		219.9	375.8	50	50
Mount Tamalpais, Cal.	T.	73	74	88	96	98	98	98		100	98	98	98	98	98	98		254.7	373.0	86	86
Nashville, Tenn.	T.	72	70	76	79	81	86	87		98	98	98	98	98	98	98		273.8	372.2	73	73
New Orleans, La.	T.	87	80	89	94	97	98	98		94	94	88	88	88	88	88		329.0	370.8	89	80
New York, N. Y.	T.	42	43	53	64	71	75	73		76	75	74	70	58	58	38		235.6	374.0	63	56
Northfield, Vt.	T.	77	76	83	47	50	54	52		90	90	90	90	90	90	90		173.2	374.5	46	36
Oklahoma, Okla.	T.	50	54	70	76	78	80	78		83	83	90	91	84	75	73		331.6	372.0	89	89
Omaha, Nebr.	T.	46	48	44	51	53	59	60		67	67	68	68	68	68	68		295.3	374.5	52	52
Parkersburg, W. Va.	T.	46	48	44	51	59	61	60		50	46	48	48	40	30	30		195.3	373.4	57	46
Phoenix, Ariz.	T.	77	70	79	89	90	90	90		91	97	94	86	88	75	89		281.6	371.4	87	79
Philadelphia, Pa.	T.	56	60	64	71	81	91	95		90	85	85	81	75	73	73		294.3	373.6	75	75
Pittsburg, Pa.	T.	48	47	48	57	61	63	64		67	63	60	59	52	51	64		218.1	374.0	58	58
Pocatello, Idaho	T.	75	70	77	94	96	96	97		99	97	98	97	97	98	97		339.5	375.0	91	76
Portland, Me.	T.	21	25	55	68	76	77	76		78	73	61	56	45	34	21		220.8	375.4	59	49
Portland, Oreg.	T.	23	28	42	53	59	66	68		71	74	73	77	67	58	58		225.4	376.1	60	67
Raleigh, N. C.	T.	62	62	76	90	95	95	91		95	94	98	94	92	82	82		312.8	372.2	84	71
Rochester, N. Y.	T.	17	29	40	59	66	69	74		81	71	70	68	47	44	38		219.1	375.0	58	49
St. Louis, Mo.	T.	75	65	76	84	91	91	93		91	88	87	83	79	79	82		306.9	373.4	71	71
St. Paul, Minn.	T.	46	44	64	66	70	72	68		66	71	72	65	53	43	43		291.5	37		

TABLE IX.—Accumulated amounts of precipitation for each 5 minutes, for storms in which the rate of fall equaled or exceeded 0.25 in any 5 minutes, or 0.75 in 1 hour during September, 1899, at all stations furnished with self-registering gages.

Stations.	Date.	Total duration.		Total amt. of precipi- tation.	Excessive rate.		Amount be- fore exces- sive began.	Depths of precipitation (in inches) during periods of time as indicated.													
		From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
Albany, N. Y.	1	2	3	4	5	6	7											0.62			
Atlanta, Ga.	10	9.14 p.m.	11.40 p.m.	1.90	9.14 p.m.	10.15 p.m.	0.00	0.39	0.61	0.68	0.76	0.84	0.89	1.01	1.07	1.12	1.17	1.47	1.58		
Atlantic City, N. J.	11	10.36 a.m.	4.20 p.m.	3.52	12.35 p.m.	1.40 p.m.	0.42	0.13	0.43	0.71	0.84	1.03	1.21	1.38	1.58	1.73	1.98	2.37	2.52	2.72	2.84
Baltimore, Md.	19-20	9.28 p.m.	7.30 a.m.	3.24	10.37 p.m.	12.15 a.m.	0.15	0.06	0.11	0.16	0.21	0.27	0.32	0.41	0.46	0.51	0.61	1.01	1.25		
Binghamton, N. Y.	25	5.20 p.m.	8.05 p.m.	2.15	5.42 p.m.	6.20 p.m.	0.11	0.09	0.21	0.28	0.40	0.53	0.75	0.87	0.90	0.92		0.28			
Bismarck, N. Dak.	16			0.04																	
Boise, Idaho	2-3			0.28																	
Boston, Mass.	20	4.00 a.m.	12.30 p.m.	2.82	7.20 a.m.	9.20 a.m.	0.87	0.07	0.15	0.28	0.30	0.35	0.39	0.48	0.57	0.61	0.65	0.70	0.94	1.19	1.63
Buffalo, N. Y.	18-19			1.39														0.44			
Cairo, Ill.	10	4.00 p.m.	6.10 p.m.	0.73	4.08 p.m.	4.27 p.m.	T.	0.22	0.39	0.55	0.61	0.65							0.43		
Charleston, S. C.	18			0.55																	
Cincinnati, Ohio	6	8.12 p.m.	10.15 p.m.	1.23	8.20 p.m.	9.35 p.m.	0.08	0.06	0.11	0.17	0.34	0.41	0.55	0.60	0.64	0.70	0.73	0.88	1.13	1.18	
Cleveland, Ohio	18-19			0.49																	
Columbia, Mo.	17			3.44																0.96	
Columbus, Ohio	1			0.50																0.47	
Denver, Colo.	16			0.20																0.11	
Des Moines, Iowa	24			0.75																*	
Detroit, Mich.	18			1.06																0.34	
Dodge, Kans.	8-9			1.03																0.15	
Duluth, Minn.	6			1.38																0.42	
Eastport, Me.	20			1.33																0.25	
Elkins, W. Va.	8	5.55 p.m.	7.20 p.m.	0.66	6.05 p.m.	6.20 p.m.	0.02	0.16	0.29	0.57	0.59	0.63									
Erie, Pa.	18-19			0.79																	
Escanaba, Mich.	7	12.50 a.m.	D. N.	1.63	12.50 a.m.	1.20 a.m.	0.00	0.09	0.20	0.41	0.47	0.57	0.69	0.70	0.73	0.78		0.68			
Fort Worth, Tex.	17			1.02																	
Fresno, Cal.																					
Galveston, Tex.	2	D. N.	10.02 a.m.	1.71	7.25 a.m.	7.40 a.m.	0.87	0.35	0.64	0.74	0.76									0.29	
Grand Junction, Colo.	14			0.28																	
Hannibal, Mo.	17	12.15 a.m.	6.00 a.m.	0.95	12.30 a.m.	12.40 a.m.	0.08	0.03	0.36	0.51	0.58										
Harrisburg, Pa.	8	6.04 p.m.	7.15 p.m.	0.63	6.10 p.m.	T.	0.13	0.27	0.42												
Hatteras, N. C.	10-11			0.82																0.21	
Huron, S. Dak.	15-17			0.18																0.09	
Indianapolis, Ind.	7			0.76																0.76	
Jacksonville, Fla.	16-17	D. N.	D. N.	1.72	2.53 a.m.	3.20 a.m.	0.90	0.20	0.45	0.59	0.71	0.75									
Jupiter, Fla.	15	D. N.	9.15 a.m.	2.74	5.58 a.m.	7.15 a.m.	0.08	0.07	0.24	0.62	0.90	1.16	1.38	1.63	1.78	1.90	2.11	2.42	2.56		
Kalispell, Mont.	12-13			0.60																0.48	
Kansas City, Mo.	9-10			0.69																0.36	
Key West, Fla.	6			0.87																0.31	
Knoxville, Tenn.	25			0.60																0.33	
Lexington, Ky.	25			0.77																0.28	
Lincoln, Nebr.	7			0.93																0.18	
Little Rock, Ark.	10-18	1.38 p.m.	4.30 p.m.	1.37	1.40 p.m.	2.25 p.m.	0.10	0.25	0.41	0.66	0.79	0.88	1.01	1.06	1.11	1.21	1.24				
Los Angeles, Cal.	9	7.00 p.m.	D. N.	1.47	11.23 p.m.	11.38 p.m.	0.42	0.19	0.35	0.59	0.62										
Louisville, Ky.	8			0.38														0.37			
Macon, Ga.	10	3.24 p.m.	4.43 p.m.	1.41	3.33 p.m.	4.00 p.m.	T.	0.33	0.61	0.80	1.04	1.19	1.28	1.35	1.38						
Memphis, Tenn.	10			0.24																0.22	
Meridian, Miss.	19			0.27																0.32	
Milwaukee, Wis.	24			1.57																0.30	
Montgomery, Ala.	19			0.30																0.30	
Nantucket, Mass.	10-11			1.50																*	
Nashville, Tenn.	6			0.36																	
New Orleans, La.	15			0.19																	
New York, N. Y.	2	3.50 a.m.	11.32 a.m.	2.39	8.50 a.m.	7.40 a.m.	0.40	0.11	0.19	0.24	0.28	0.28	0.36	0.50	0.55	0.61	0.65				
Norfolk, Va.	10			0.14																0.13	
Northfield, Vt.	1-2			1.69																0.37	
Oklahoma, Okla.	16-17			0.69																0.24	
Omaha, Nebr.	7			0.30																0.18	
Parkersburg, W. Va.	10-11	11.25 p.m.	6.50 a.m.	1.54	12.55 a.m.	1.45 a.m.	0.88	0.11	0.18	0.33	0.44	0.56	0.64	0.71	0.77	0.81	0.85	0.89	0.97	1.05	1.08
Philadelphia, Pa.	19	3.57 p.m.	6.45 p.m.	0.81	3.57 p.m.	4.10 p.m.	0.00	0.27	0.42	0.46	0.47										
Pittsburg, Pa.	26	12.05 a.m.	7.54 a.m.	1.06	12.57 a.m.	1.27 a.m.	T.	0.14	0.25	0.44	0.46	0.57	0.71								
Pocatello, Idaho	2	2.25 p.m.	4.55 p.m.	0.65	2.53 p.m.	0.04	0.17	0.42	0.53	0.60	0.61										
Portland, Me.	20			1.88																0.39	
Portland, Oreg.	29			0.18																0.17	
Raleigh, N. C.	25-26	8.30 p.m.	D. N.	1.26	8.32 p.m.	8.55 p.m.	T.	0.22	0.39	0.50	0.61	0.64									
Richmond, Va.	6	6.00 p.m.	8.20 p.m.	0.96	6.05 p.m.	6.28 p.m.	T.	0.09	0.39	0.71	0.82										
Rochester, N. Y.	19-20	2.05 p.m.	D. N.	1.16																0.10	
St. Louis, Mo.	17			0.84																0.62	
St. Paul, Minn.	6			0.35																	
Salt Lake City, Utah.	13			T.																	
San Diego, Cal.																					
San Francisco, Cal.																					
Savannah, Ga.	17	5.30 a.m.	11.35 p.m.	3.51	8.40 p.m.	9.25 p.m.	2.34	0.11	0.21	0.28	0.47	0.58	0.59	0.67	0.68	0.77	0.79				
Seattle, Wash.	12	10.12 p.m.	11.20 p.m.	0.69	10.15 p.m.	10.55 p.m.	T.	0.08	0.16	0.29	0.35	0.46	0.57	0.57	0.61	0.63				0.18	
Spokane, Wash.	13			0.33																	
Tampa, Fla.	11	3.32 p.m.	5.00 p.m.	1.86	5.00 p.m.	5.45 p.m.	0.30	0.18	0.40	0.70	0.90	1.05	1.15	1.25	1.30	1.40					
Vicksburg	7	9.15 a.m.	5.38 p.m.	1.92	2.05 p.m.	2.25 p.m.	T.	0.05	0.15	0.45	0.50	0.57	0.62	0.78	0.90	1.14					
Washington, D. C.	25-26	12.45 p.m.	2.30 p.m.	0.61																	

TABLE IX.—Accumulated amounts of precipitation for each 5 minutes, etc.—Continued.

Stations.	Date.	Total duration.			Excessive rate.		Amount before excessive began.	Depths of precipitation (in inches) during periods of time as indicated.													
		From—	To—	Total amt. of precipi- tation.	Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
San Juan, Porto Rico...	30	11.31 a.m.	3.50 p.m.	2.23	11.58 a.m.	1.00 p.m.	0.08	0.13	0.25	0.31	0.35	0.44	0.56	0.75	0.91	0.96	1.06	1.43	1.49	1.59	1.95
Santiago de Cuba ....	11	7.35 p.m.	8.34 p.m.	0.71	7.40 p.m.	8.15 p.m.	0.02	0.05	0.08	0.19	0.26	0.42	0.55	0.63	0.66	0.69	.....	.....	.....	.....	.....
Santo Domingo, W.I....	28	8.02 p.m.	8.20 p.m.	0.63	8.08 p.m.	8.17 p.m.	T.	0.10	0.26	0.63	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Willemstad, Curayao..	2	.....	.....	0.48	.....	.....	.....	.....	.....	.....	0.48	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

\*Self-register out of order.

†No precipitation during the month.

TABLE X.—*Excessive precipitation, by stations, for September, 1899.*

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.		
		Amt.	Day.	Amt.	Time.	Day.
Oneonta	Alabama.	Inches.	Inches.	Ins.	h.m.	9
Bisbee	Arizona.			2.03	0 25	
Silver King		2.50	8	2.41	1 00	6
Hot Springs	Arkansas			1.50	1 00	10
Lake Konomoo	Connecticut.			4.73	20	
North Franklin		8.47	21-23	2.70		
Voluntown	District of Columbia.			6.50	20	20
Distributing Reservoir				2.59	26	
Receiving Reservoir				2.70	20	
Do				2.60	26	
Washington	Florida.	10.58		2.71	25-26	
Bartow						
Eustis						
Do						
Fort Meade		10.45	2.50	2.25	1 50	12
Jacksonville				2.71	16-17	
Jupiter				11.37	2.98	
Do				11.15	14-15	2.42
Kissimmee				5.94	*	1 00
Orlando				2.68	18	30
St. Francis Barracks				2.75	17	
Tampa	Georgia.					
Do						
Atlanta						
Dublin						
Fleming						
Macon						
Maury						
Savannah	Illinois.					
Winchester	Indiana.					
Columbia City	Iowa.					
Keokuk	Louisiana.					
Grand Coteau	Maryland.					
Paincourtville						
Venice						
Do						
Baltimore	Maryland.					
Do						
Chestertown						
Coleman						
Easton						
Ellicott City						
Fallston						
Johns Hopkins Hospital						
McDonogh						
Queenstown						
Solomons						
Takoma Park	Massachusetts.					
Amherst						
Attleboro		10.21	6.74	2.90	25-26	1.00 0 58
Bluehill						25
Boston						
Cambridge						
Chestnut Hill						
Cohasset						
Fall River						
Leeds						
Longplain						
Middleboro						
Plymouth						
Salem						
Somerset						
Taunton						
Weston						
Winchendon	Michigan.					
Arbela						
Humboldt						
Ishpeming						
Newberry						
Port Austin						
Willow River	Minnesota.					
Louisville	Mississippi.					
Port Gibson	Missouri.					
Downing						
Eldon						
Galena						
Mount Vernon						
Poplar Bluff						
Sarcocie						
Wylie	New Hampshire.					
Brookline	New Jersey.					
Atlantic City						

TABLE X.—*Excessive precipitation—Continued.*

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.	
		Amt.	Day.	Amt.	Time.
Atlantic City	New Jersey—Continued.	Inches.	Inches.	h.m.	
Elizabeth			3.24	10-20	
Flemington			2.52	11	
Lambertville			2.94	11	
Mount Pleasant			2.64	11	
Do			3.23	11	
Ocean City			4.10	19-20	
Perth Amboy			3.10	19-20	
Rocktown			3.78	2	
Staffordville			3.40	11	
Tuckerton			3.96	19-20	
Raton	New Mexico.			3.10	20
Roswell					
Albany	New York.			2.87	25-26
Caldwell				5.25	25-26
Carmel				3.31	2
Catskill				3.00	25-26
Cherry Creek				2.55	1
Cutchogue				6.68	20
Glen Falls				4.44	25-26
Greenwich				3.40	25-26
Keene Valley				3.33	25-26
Kings Station				4.56	26
Lakehill				4.17	25-26
Mayle				2.80	19
Mohonk Lake				3.00	1-2
North Germantown				2.52	25-26
Port Jervis				2.57	25-26
Saratoga Springs				5.84	25-26
Schenectady				7.46	25-26
Wappingers Falls				4.90	1-2
Experiment Farm	North Carolina.				
Louisburg				3.40	9 3.40 1 15 9
Mount Airy				3.19	19
Rockingham				3.90	11
Saxon	Oklahoma.				1.12 1 00 7
Mangum	Pennsylvania.			2.78	16
Bethlehem				3.35	25
East Mauch Chunk				2.57	25-26
Ephrata				3.81	25-26
Greensboro				2.35	10-11
Seisholtzville				3.00	26
Somerset				2.73	11
Sunbury	Rhode Island.				
Kingston				4.00	20
Lonsdale				5.89	20
Narragansett				3.15	19-20
Pawtucket				6.05	20
Providence				6.50	20
Batesburg	South Carolina.				
St. Georges				2.00	0 20 8
Smiths Mills				1.85	1 50 11
Bluff City	Tennessee.			2.50	25-26
Decatur				1.46	0 55 7
Greeneville				1.05	1 00 7
Pope				2.98	19-20
Amarillo	Texas.			1.55	1 00 9
Brownwood				2.94	7-8 1.01 0 48 7
Grapevine				3.00	17
Hondo				1.29	1 00 10
Houston				1.00	0 15 11
Mann				1.18	0 50 10
Marathon				1.78	1 15 17
Mount Blanco				1.80	1 45 8
Rock Island				1.01	0 50 16
Cornwall	Vermont.			1.38	1 00
Norwich				2.81	26
Wells				2.58	26
Lexington	Virginia.			1.03	0 20 8
Salem				2.80	19
Scotsburg				2.67	19
Do				4.65	19-20 3.33 3 00 19
Do				1.32	1 00 20
Standardsville				1.40	1 00 2
Warsaw				2.75	20
Bayfield	Wisconsin.			1.60	0 55 6
Cuba	Cuba.				
Cienfuegos				1.56	0 40 28
Puerto Principe				2.72	17 2.63 0 35 17
Bayamon	Porto Rico.			18.09	7.07 1-2
Corozal				10.15	
Isabela				2.55	2
Juana Diaz				10.05	5.84 1-2

TABLE X.—*Excessive precipitation*—Continued.

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch or more, in one hour.		
		Amt.	Day.	Amt.	Time.	Day.
<i>Porto Rico—Continued.</i>						
La Isolina.....	Inches.	Inches.		Ins.	h.m.	
15.53	5.80	1-2				
Lojas .....		5.25	2			
Loquillo .....	14.98					
Manati.....	10.52			1.91	1-45	1
Puerto de Tierra .....	12.66	2.74	1			
San Juan .....	13.66	8.76	1-2	1.09	1 00	1
Dm.....				1.45	1 00	2

TABLE X.—*Excessive precipitation*.—Continued.

Stations.	Monthly rainfall 10 inches, or more.	Rainfall $\frac{2}{3}$ .50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.		
		Amt.	Day.	Amt.	Time.	Day.
<i>Porto Rico—Continued.</i>						
San Lorenzo.....	12.55	5.48	1-2	.....	.....	....
<i>West Indies.</i>						
Basseterre, St. Kitts .....	.....	3.43	8	.....	.....	....
Bridgetown, Barbados .....	.....	8.73	18	3.27	1 01	18

\* September 30—October 1.

TABLE XI.—*Data furnished by the Canadian Meteorological Service, September, 1899.*